Executive Summary



Performance Report for:

https://fusionantibodies.com/

Report generated: Tue, Mar 12, 2024 11:21 PM -0700

Test Server Location: K London, UK

Using: O Chrome 117.0.0.0, Lighthouse 11.0.0



Performance 86%

Structure

95%

L. Contentful Paint

2.3s

T. Blocking Time

66ms

C. Layout Shift

0.02

Top Issues

Med	Serve static assets with an efficient cache policy	Potential savings of 1.24MB
Med-Low	Use a Content Delivery Network (CDN)	21 resources found
Low	Preconnect to required origins FCP LCP	Potential savings of 152ms
Low	Avoid an excessive DOM size TBT	606 elements
Low	Avoid long main-thread tasks TBT	5 long tasks found

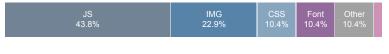
Page Details

2.3s Fully Loaded Time

Total Page Size - 1.52MB



Total Page Requests - 48



HTML JS CSS IMG Video Font Other

How does this affect me?

Today's web user expects a fast and seamless website experience. Delivering that fast experience can result in increased visits, conversions and overall happiness.

As if you didn't need more incentive, Google has announced that they are using page speed in their ranking algorithm.

About GTmetrix



GTmetrix is developed by the good folks at **Carbon60**, a Canadian hosting company with over 28 years experience in web technology.

https://carbon60.com/

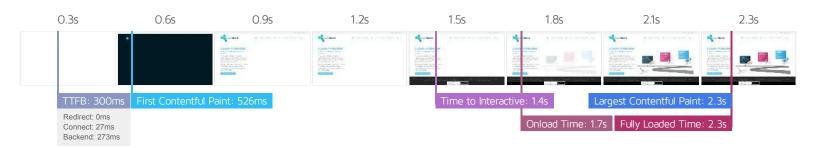


The waterfall chart displays the loading behaviour of your site in your selected browser. It can be used to discover simple issues such as 404's or more complex issues such as external resources blocking page rendering.

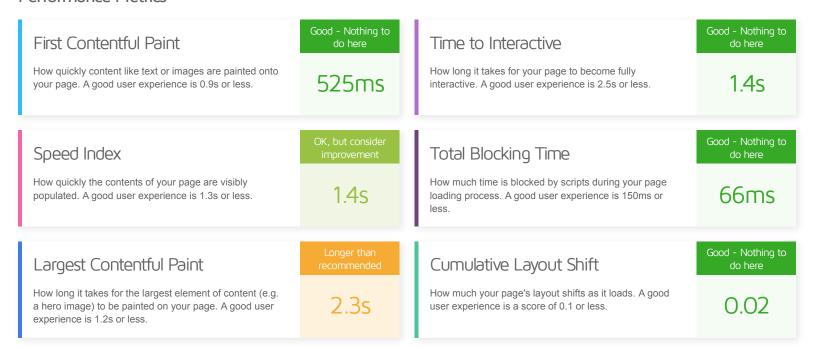
R&D Antibody Discovery Partner | Fusion Antibodies

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eiuzdf6wzf?ref=gtm2	200	fusionantibodies.com	5.29KB			105ms				
	200	clarity.ms	0.99KB			228ms				
insight.min.js	200	snap.licdn.com	16.8KB			151ms				
ipgeolocation.min.js	200	cdn.jsdelivr.net	0.98KB			137ms				
hotjar-1748218.js?sv=7	200	static.hotjar.com	409B			171ms				
bat.js	200	bat.bing.com	13.0KB			132ms				
analytics.js	200	google-analytics.com	20.5KB			144ms				
js?id=G-Q1G5F3TSMD&l=	200	googletagmanager.c	93.4KB			157ms				
entypo-fontello.woff2	200	fusionantibodies.com	38.3KB		70ms					
polygon.png	200	fusionantibodies.com	37.7KB		10ms					
montserrat-regular.ttf	200	fusionantibodies.com	194KB		118ms					
montserrat-bold.ttf	200	fusionantibodies.com	194KB		112ms					
raleway-regular.ttf	200	fusionantibodies.com	160KB		68ms					
raleway-bold.ttf	200	fusionantibodies.com	159KB		83ms					
call.tracker.js?28505181	200	crm.fusionantibodies	10.9KB		106ms					
Capture.aspx?retType=js	200	secure.leadforensics	0		5ms					
gtm.js?id=GTM-579763K	200	googletagmanager.c	98KB		98ms					
avia-footer-scripts-cae38	200	fusionantibodies.com	55.0KB	49ms	00					
smush-lazy-load.min.js?v	200	fusionantibodies.com	3.91KB	33ms						
wp-mediaelement.min.js?	200	fusionantibodies.com	845B	33ms						
mediaelement-migrate.mi	200	fusionantibodies.com	847B	32ms						
mediaelement-and-player	200	fusionantibodies.com	38.7KB	36ms						
20684.js	200	secure.leadforensics	1.08KB	64ms						
jquery-migrate.min.js?ver	200	fusionantibodies.com	5.07KB	24ms						
jquery.min.js?ver=3.7.1	200	fusionantibodies.com	30.2KB	25ms						
post-5496.css?ver=ver-16	200	fusionantibodies.com	843B	22ms						
avia-merged-styles-04c21	200	fusionantibodies.com	66.3KB	38ms						
wp-mediaelement.min.cs	200	fusionantibodies.com	1.41KB	17ms						
mediaelementplayer-lega	200	fusionantibodies.com	2.81KB	17ms						
style.min.css?ver=1ec355	200	fusionantibodies.com	14.9KB	19ms						
	200	fusionantibodies.com	25.0KB	307ms						





Performance Metrics



Browser Timings

Redirect	Oms	Connect	27ms	Backend	273ms
TTFB	300ms	First Paint	526ms	DOM Int.	905ms
DOM Loaded	915ms	Onload	1.7s	Fully Loaded	2.3s



Structure Audits

IMPACT

AUDIT

Low

Reduce JavaScript execution time TBT

560ms spent executing JavaScript

Consider reducing the time spent parsing, compiling, and executing JS. You may find delivering smaller JS payloads helps with this.

URL	TOTAL CPU TIME	EVALUATION	PARSE
https://fusionantibodies.com/	360ms	69ms	3ms
• https://fusionantibodies.com/wp-includes/js/jquery/jquery.min.js?ver=3.7.1	295ms	195ms	1ms
Unattributable	204ms	14ms	0ms
• https://www.clarity.ms/s/0.7.24/clarity.js	124ms	99ms	4ms
• https://fusionantibodies.com/wp-content/plugins/wp-smushit/app/assets/js/smush-lazy-load.min.js?ver=3.15.5	118ms	17ms	0ms
• https://www.googletagmanager.com/gtm.js?id=GTM-579763K	94ms	83ms	4ms
• https://www.googletagmanager.com/gtag/js?id=G-Q1G5F3TSMD&l=dataLayer&cx=c	68ms	61ms	4ms

Low

Avoid enormous network payloads LCP

Total size was 1.53MB

Large network payloads cost users real money and are highly correlated with long load times.

KB KB
KB
KB
KB
KB
В
5KB
3KB
)KB
'KB
- - - - - -

Low

Properly size images

Potential savings of 150KB

Serve images that are appropriately-sized to save cellular data and improve load time.

URL RESOURCE SIZE POTENTIAL SAVINGS

https://fusionantibodies.com/wp-content/uploads/fusion-infographic-e1648207495704-1500x802.png 209KB 150KB

Low

Ensure text remains visible during webfont load FCP LCP

5 fonts found

Leverage the font-display CSS feature to ensure text is user-visible while webfonts are loading.

URL
 https://fusionantibodies.com/wp-content/uploads/avia_fonts/type_fonts/ralewayg/raleway-bold.ttf
 https://fusionantibodies.com/wp-content/uploads/avia_fonts/type_fonts/ralewayg/raleway-regular.ttf
 https://fusionantibodies.com/wp-content/uploads/avia_fonts/type_fonts/static/montserrat-bold.ttf
 https://fusionantibodies.com/wp-content/uploads/avia_fonts/type_fonts/static/montserrat-regular.ttf
 https://fusionantibodies.com/wp-content/uploads/avia_fonts/type_fonts/static/montserrat-regular.ttf
 https://fusionantibodies.com/wp-content/themes/enfold/config-templatebuilder/avia-template-builder/assets/fonts/entypo-fontello.woff2
 9ms

Low

Reduce unused CSS FCP LCP

Potential savings of 71.9KB

Reduce unused rules from stylesheets and defer CSS not used for above-the-fold content to decrease bytes consumed by network activity.

URL TRANSFER SIZE POTENTIAL SAVINGS

 https://fusionantibodies.com/wp-content/uploads/dynamic_avia/avia-merged-styles-04c21fe338635bf388dd5e6a249 b0a18---642e622716b9a.css
 66.3KB
 57.1KB

 https://fusionantibodies.com/wp-includes/css/dist/block-library/style.min.css?ver=1ec355cd2ebc558e5f7075bb7b23b bd7
 14.9KB

Low

Serve images in next-gen formats

Potential savings of 190KB

Image formats like WebP and AVIF often provide better compression than PNG or JPEG, which means faster downloads and less data consumption.

URL

https://fusionantibodies.com/wp-content/uploads/fusion-infographic-e1648207495704-1500x802.png

209KB

161KB

https://fusionantibodies.com/wp-content/themes/enfold/images/background-images/polygon.png,

37.7KB

29.9KB

Low

Reduce initial server response time FCP LCP

Root document took 272ms

Keep the server response time for the main document short because all other requests depend on it.

URL TIME SPENT

• https://fusionantibodies.com/ 272ms

Low

Defer offscreen images

Potential savings of 37.7KB

Consider lazy-loading offscreen and hidden images after all critical resources have finished loading to lower time to interactive.

URL RESOURCE SIZE POTENTIAL SAVINGS

https://fusionantibodies.com/wp-content/themes/enfold/images/background-images/polygon.png 37.7KB 37.7KB

Low

Avoid non-composited animations CLS

4 animated elements found

Animations which are not composited can be janky and increase CLS.

ELEMENT NAME Hi, like all websites we use cookies! Cookies allow us to help make your time o... <div class="avia-cookie-consent avia-cookiemessage-bottom" aria-hidden="false" data-</pre> contents="0656293e3c4fdefc468b13b3866a37d0||v1.0"> visibilit Unsupported CSS Property: visibility Unsupported CSS Property: bottom **bottom** Reject All visibilit Unsupported CSS Property: visibility Privacy Policy <a href="/privacy-policy" class="avia-button avia-color-theme-color-highlight avia-cookie-consent-button</pre> av..."> visibilit Unsupported CSS Property: visibility Accept All visibilit Unsupported CSS Property: visibility

Low

Avoid chaining critical requests FCP LCP

17 chains found

The Critical Request Chains below show you what resources are loaded with a high priority. Consider reducing the length of chains, reducing the download size of resources, or deferring the download of unnecessary resources to improve page load.

Maximum critical path latency: 781ms

INITIAL NAVIGATION

https://fusionantibodies.com/ 25.0KB, 305ms

https://fusionantibodies.com/wp-includes/js/jquery/jquery.min.js?ver=3.7.1 30.2KB, 23ms

https://fusionantibodies.com/wp-content/uploads/avia_posts_css/post-5496.css?ver=ver-1682675273 2 843B, 20ms

https://fusionantibodies.com/wp-includes/js/mediaelement/mediaelement-and-player.min.js?ver=4.2.17 🍱 38.7KB, 34ms

https://fusionantibodies.com/wp-content/plugins/wp-smushit/app/assets/js/smush-lazy-load.min.js?ver=3.15.5 3.91KB, 31ms

https://fusionantibodies.com/wp-includes/js/mediaelement/mediaelementplayer-legacy_min.css?ver=4.2.17 2 2.81KB, 15ms

https://fusionantibodies.com/wp-content/uploads/dynamic_avia/avia-footer-scripts-cae38c9d3f2827fe8737a48647941c63---642e622779d47.js 🗗 55.0KB, 46ms

https://fusionantibodies.com/wp-includes/js/mediaelement/wp-mediaelement.min.js?ver=1ec355cd2ebc558e5f7075bb7b23bbd7 🗗 845B, 30ms

https://fusionantibodies.com/wp-includes/js/mediaelement/wp-mediaelement.min.css?ver=1ec355cd2ebc558e5f7075bb7b23bbd7 🍱 1.41KB, 16ms

https://fusionantibodies.com/wp-includes/js/mediaelement/mediaelement-migrate.min.js?ver=1ec355cd2ebc558e5f7075bb7b23bbd7 🗗 847B, 29ms

https://fusionantibodies.com/wp-content/themes/enfold/config-templatebuilder/avia-template-builder/assets/fonts/entypo-fontello.woff2 🖪 38.6KB, 9ms

https://fusionantibodies.com/wp-includes/js/jquery/jquery-migrate.min.js?ver=3.4.1 5.07KB, 23ms

https://fusionantibodies.com/wp-includes/css/dist/block-library/style.min.css?ver=1ec355cd2ebc558e5f7075bb7b23bbd7 💆 14.9KB, 18ms

https://secure.leadforensics.com/js/20684.js 1.08KB, 62ms

https://fusionantibodies.com/wp-content/uploads/dynamic_avia/avia-merged-styles-04c21fe338635bf388dd5e6a249b0a18---642e622716b9a.css 🖪 66.3KB, 36ms

. https://fusionantibodies.com/wp-content/uploads/avia_fonts/type_fonts/ralewayg/raleway-regular.ttf 🗗 160KB, 23ms

https://fusionantibodies.com/wp-content/uploads/avia_fonts/type_fonts/static/montserrat-regular.ttf 🗗 194KB, 21ms

https://fusionantibodies.com/wp-content/uploads/avia_fonts/type_fonts/ralewayg/raleway-bold.ttf 2 160KB, 19ms

🛮 https://fusionantibodies.com/wp-content/uploads/avia fonts/type fonts/static/montserrat-bold.ttf 🗗 194KB, 15ms

Low

Reduce unused JavaScript LCP

Potential savings of 146KB

Reduce unused JavaScript and defer loading scripts until they are required to decrease bytes consumed by network activity.

URL	TRANSFER SIZE	POTENTIAL SAVINGS
https://www.googletagmanager.com/gtm.js?id=GTM-579763K	98KB	40.3KB
https://www.googletagmanager.com/gtag/js?id=G-Q1G5F3TSMD&l=dataLayer&cx=c	93.5KB	39.9KB
https://fusionantibodies.com/wp-content/uploads/dynamic_avia/avia-footer-scripts-cae38c9d3f2827fe8737a48647941c 63642e622779d47.js	55.0KB	33.8KB
https://fusionantibodies.com/wp-includes/js/mediaelement/mediaelement-and-player.min.js?ver=4.2.17	38.7KB	31.6KB

N/A

Largest Contentful Paint element LCP

2,350 ms

This is the largest contentful element painted within the viewport.

ELEMENT

Fusion Antibodies Journey to the Clinic Infographic

<img decoding="async" alt="Fusion Antibodies Journey to the Clinic Infographic" height="1990" width="3721"
itemprop="thumbnailUrl" data-srcset="https://fusionantibodies.com/wp-content/uploads/fusion-infographic-e164820..."
data-src="https://fusionantibodies.com/wp-content/uploads/fusion-infographic-e164820..." data-sizes="(max-width:
3721px) 100vw, 3721px" class="wp-image-5584 avia-img-lazy-loading-5584 avia_image ls-is-cached lazyloaded"
src="https://fusionantibodies.com/wp-content/uploads/fusion-infographic-e164820..." sizes="(max-width: 3721px)
100vw, 3721px" ...>

PHASE	% OF LCP	TIMING
TTFB	13%	300ms
Load Delay	52%	1.2s
Load Time	1%	19ms
Render Delay	34%	797ms

N/A

Eliminate render-blocking resources FCP LCP

Potential savings of 23ms

Resources are blocking the first paint of your page. Consider delivering critical JS/CSS inline and deferring all non-critical JS/styles.

Resources that may be contributing to render-blocking include:

URL	TRANSFER SIZE	DOWNLOAD TIME
• https://fusionantibodies.com/wp-includes/js/mediaelement/wp-mediaelement.min.css?ver=1ec355cd2ebc558e5f7075bb7 bb23bbd7	1.41KB	151ms
 https://fusionantibodies.com/wp-content/uploads/dynamic_avia/avia-merged-styles-04c21fe338635bf388dd5e6a249b0a1 8642e622716b9a.css 	66.3KB	753ms
• https://fusionantibodies.com/wp-includes/js/jguery/jguery_min.js?ver=3.7.1	30.2KB	151ms
• https://fusionantibodies.com/wp-includes/js/jguery/jguery-migrate.min.js?ver=3.4.1	5.07KB	151ms
https://secure.leadforensics.com/js/20684.js	1.08KB	766ms

N/A

Avoid serving legacy JavaScript to modern browsers TBT

Potential savings of 7.19KB

Polyfills and transforms enable legacy browsers to use new JavaScript features. However, many aren't necessary for modern browsers. For your bundled JavaScript, adopt a modern script deployment strategy using module/nomodule feature detection to reduce the amount of code shipped to modern browsers, while retaining support for legacy browsers.

POTENTIAL SAVINGS https://fusionantibodies.com/wp-content/uploads/dynamic_avia/avia-footer-scripts-cae38c9d3f2827fe8737 7.08KB a48647941c63---642e622779d47.js Line:0 Column:20 Array.isArray https://snap.licdn.com/li.lms-analytics/insight.min.js 59B @babel/plugin-transform Line:0 Column:680 -classes https://fusionantibodies.com/wp-includes/js/mediaelement/mediaelement-and-player.min.js?ver=4.2.17 55B @babel/plugin-transform Line:11 Column:12531 -classes

N/A

Avoid large layout shifts CLS

4 elements found

These DOM elements contribute most to the CLS of the page.

ELEMENT	CLS CONTRIBUTION
What our clients say "One of the humanized antibodies you designed for us has <div class="avia-section av-5qddy0-ac28740e8228a4e2184a89c185a96a04 alternate_color av" id="av_section_2"></div>	0.02
Hi, like all websites we use cookies! Cookies allow us to help make your time o <div aria-hidden="false" class="avia-cookie-consent avia-cookiemessage-bottom" data-contents="0656293e3c4fdefc468b13b3866a37d0 v1.0"></div>	0.00
Home Discovery Engineering Supply Cell Line Development News & Insights Contact <div class="avia-menu av-main-nav-wrap"></div>	0.00
ul#avia-menu > li#menu-item-5549 > a > span.avia-menu-fx <pre></pre>	0.00

N/A

CATEGORY

Minimize main-thread work TBT

Main-thread busy for 1.5s

Consider reducing the time spent parsing, compiling and executing JS. You may find delivering smaller JS payloads helps with this.

TIME SPENT 668ms Script Evaluation Other 363ms Style & Layout 288ms Parse HTML & CSS 77ms Script Parsing & Compilation 33ms Rendering 27ms **Garbage Collection** 12ms

Third-party code can significantly impact load performance. Limit the number of redundant third-party providers and try to load third-party code after your page has primarily finished loading.

THIRD-PARTY	TRANSFER SIZE	MAIN-THREAD BLOCKING TIME
GOOGLE TAG MANAGER	192KB	6ms
• https://www.googletagmanager.com/gtag/js?id=G-Q1G5F3TSMD&l=dataLayer&cx=c	93.5KB	6ms
 https://www.googletagmanager.com/gtm.js?id=GTM-579763K 	98KB	0ms
CLARITY	27.9KB	0ms
• https://www.clarity.ms/s/0.7.24/clarity.js	25.1KB	0ms
GOOGLE ANALYTICS	20.8KB	0ms
https://www.google-analytics.com/analytics.js	20.8KB	0ms
LINKEDIN ADS	19.7KB	0ms
https://snap.licdn.com/li.lms-analytics/insight.min.js	17.0KB	0ms
BING ADS	14.4KB	0ms
https://bat.bing.com/bat.js	13.4KB	0ms
JSDELIVR CDN	1.45KB	0ms
LEAD FORENSICS	1.24KB	0ms
IPGEOLOCATION.IO	818B	0ms
HOTJAR	409B	0ms

N/A

User Timing marks and measures

No user timings and/or marks found.