

Datasheet: TZA0141P

Description:	HUMAN ANTI AFLIBERCEPT:HRP
Specificity:	AFLIBERCEPT
Other names:	Eylea
Format:	HRP
Product Type:	Monoclonal Antibody
Clone:	AbD34644pap
Isotype:	Fab antibody
Quantity:	0.1 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
ELISA	▪			

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Product Form

A bivalent human recombinant Fab (kappa light chain) generated by coupling of the monovalent SpyTagged Fab with a HRP conjugated BiSpyCatcher version 2 ([TZC002P](#)). The coupled antibody has two DYKDDDDK tags and three His6-tags. It contains SpyTag3 peptide ([BLP086](#)) in 5-fold molar excess to block any unreacted Catcher sites. This antibody is supplied as a liquid.

Preparation

Metal chelate affinity chromatography

Source

E.coli

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers

0.0095% MIT

Approx. Protein Concentrations

Antibody concentration 0.5 mg/ml

Immunogen	Aflibercept
Specificity	<p>Human Anti-Aflibercept Antibody, clone AbD34644pap is a paratope specific, inhibitory antibody that specifically recognizes the free fusion protein drug aflibercept as well as the vascular endothelial growth factor receptor 1 (VEGFR1) but not the vascular endothelial growth factor receptor 2 (VEGFR2). It does not recognize free VEGF nor aflibercept in complex with VEGFR.</p> <p>TZA0141P, clone AbD34644pap is a bivalent Fab antibody already conjugated to HRP via coupling to the HRP conjugated BiSpyCatcher2 (TZC002P) for use in direct ELISA.</p> <p>A pair of anti-aflibercept antibodies can be used to develop a pharmacokinetic (PK) bridging assay to measure free drug. Clone AbD34644pap is recommended as the detection antibody, paired with Human Anti-Aflibercept Antibody in monovalent Fab format, clone AbD38778da (HCA390) as the capture antibody.</p> <p>Aflibercept (Eylea, Zaltrap) is a recombinant fusion protein consisting of the extra-cellular domain of human VEGF receptors 1 and 2, fused to the Fc portion of human IgG1. It is used to treat the 'wet' form of age-related macular degeneration (AMD) and impaired vision due to macular oedema. It is also used in the treatment of metastatic colorectal cancer in combination with 5-fluorouracil, leucovorin and irinotecan in patients previously treated with an oxaliplatin-containing chemotherapy. Aflibercept binds to circulating VEGF-A and VEGF-B to inhibit their ability to promote angiogenesis.</p> <p>View a summary of all anti aflibercept antibodies</p>
Affinity	The intrinsic affinity of the monovalent form of Human anti Aflibercept antibody, clone AbD34644pap is $K_D = 11$ nM as measured by real time, label free molecular interaction analysis on immobilized Aflibercept
ELISA	<p>Clone AbD34644pap can be used in direct or indirect ELISA to detect aflibercept. It can also be used as a detection antibody to develop a pharmacokinetic (PK) bridging ELISA for aflibercept together with HCA390 as the capture reagent.</p> <p>Protocol: PK bridging ELISA</p>
Storage	<p>This product is shipped frozen.</p> <p>When ready to use, thaw and aliquot the sample as needed. Store aliquots at -70°C, if available, otherwise store at -20°C. It is not recommended to keep aliquots at 4°C for more than one week</p>
Guarantee	12 months from date of despatch
Acknowledgements	<p>This product and/or its use is covered by claims of U.S. patents, and/or pending U.S. and non-U.S. patent applications owned by or under license to Bio-Rad Laboratories, Inc. See bio-rad.com/en-us/trademarks for details.</p> <p>Eylea is a trademark of Regeneron/Sanofi.</p> <p>Zaltrap is a trademark of Regeneron/Bayer Healthcare.</p>

Health And Safety Information	Material Safety Datasheet documentation #20479 available at: https://www.bio-rad-antibodies.com/SDS/TZA0141P
Licensed Use	For <i>in vitro</i> research purposes and for commercial applications for the provision of <i>in vitro</i> testing services to support preclinical and clinical drug development. Any re-sale in any form or any other commercial application needs a written agreement with Bio-Rad.
Regulatory	For research purposes only
Technical Advice	Recommended protocols for coupling a Fab antibody with a SpyTag to a SpyCatcher can be found at SpyTag and SpyCatcher Products , and further information about HuCAL recombinant antibody technology can be found in the HuCAL Antibodies Technical Manual

Related Products

Recommended Useful Reagents

[HISPEC ASSAY DILUENT \(BUF049A\)](#)
[HUMAN ANTI AFLIBERCEPT \(HCA386\)](#)
[HUMAN ANTI AFLIBERCEPT \(HCA387\)](#)
[HUMAN ANTI AFLIBERCEPT \(HCA389\)](#)
[HUMAN ANTI AFLIBERCEPT \(HCA390\)](#)
[HUMAN ANTI AFLIBERCEPT \(HCA388\)](#)

Product inquiries: www.bio-rad-antibodies.com/technical-support

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
'M450067:260303'

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