

Datasheet: TZA0141P

BATCH NUMBER 172697

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

Antibody concentration 0.5 mg/ml

Concentrations

Immunogen Aflibercept

Specificity **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.

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.

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.

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.

[View a summary of all anti aflibercept antibodies](#)

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 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.

Protocol: [PK bridging ELISA](#)

Storage This product is shipped frozen.
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

Guarantee 12 months from date of despatch

Acknowledgements 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.

Eylea is a trademark of Regeneron/Sanofi.
Zaltrap is a trademark of Regeneron/Bayer Healthcare.

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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