

Datasheet: AHP1327

Description:	RABBIT ANTI HUMAN VEGF RECEPTOR 2
Specificity:	VEGF RECEPTOR 2
Other names:	KDR
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	50 µg

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
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin (1)	▪			10ug/ml
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting			▪	
Functional Assays			▪	

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.

(1) This product requires antigen retrieval using heat treatment prior to staining of paraffin sections. Sodium citrate buffer pH 6.0 is recommended for this purpose.

Target Species	Human
Product Form	Purified IgG - liquid
Antiserum Preparation	Antisera to human VEGF receptor 2 were raised by repeated immunisations of rabbits with highly purified antigen. Purified IgG prepared by affinity chromatography.
Buffer Solution	Phosphate buffered saline
Preservative	0.1% Sodium Azide (NaN ₃)

Stabilisers

Approx. Protein Concentrations IgG concentration 0.5 mg/ml

Immunogen Synthetic peptide corresponding to an internal domain of human VEGF receptor 2, conjugated to Keyhole Limpet Hemocyanin (KLH).

External Database Links
UniProt:
[P35968](#) [Related reagents](#)

Entrez Gene:
[3791](#) KDR [Related reagents](#)

Synonyms FLK1

RRID AB_906168

Specificity **Rabbit anti Human VEGF receptor 2 antibody** detects vascular endothelial growth factor receptor 2 (VEGFR2), a member of the tyrosine kinase family that plays an essential role in transducing the major signals for angiogenesis. VEGFR2 has also been implicated in embryonic development, wound healing, cell proliferation, migration and differentiation.

VEGFR2 is expressed mostly on vascular endothelial cells, and is expressed on a subpopulation of haematopoietic cells which might be the progenitor for endothelial cells.

Mutated forms of VEGFR2 have been implicated in cancer and diabetic retinopathy, where it results in pathological angiogenesis.

Histology Positive Control Tissue Breast carcinoma.

References

1. Shibuya, M. (2006) Differential roles of vascular endothelial growth factor receptor-1 and receptor-2 in angiogenesis. [J Biochem Mol Biol. 39 \(5\): 469-78.](#)
2. Hjelmgren, O. *et al.* (2016) Increased Vascularization in the Vulnerable Upstream Regions of Both Early and Advanced Human Carotid Atherosclerosis. [PLoS One. 11 \(12\): e0166918.](#)

Storage Store at +4°C or at -20°C if preferred.
Storage in frost-free freezers is not recommended.
This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee 12 months from date of despatch

Health And Safety Material Safety Datasheet documentation #10040 available at:

Information 10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...) [FITC](#)
Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)
Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)
Sheep Anti Rabbit IgG (STAR35...) [RPE](#)
Sheep Anti Rabbit IgG (STAR36...) [DyLight®488](#), [DyLight®680](#), [DyLight®800](#)

Recommended Useful Reagents

[HISTAR DETECTION SYSTEM \(STAR3000A\)](#)
[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025A\)](#)
[100x ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025C\)](#)

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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)
'M363900:200529'

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