

Datasheet: AHP2568

BATCH NUMBER 141530

Description:	RABBIT ANTI CD140a (pTyr849)
Specificity:	CD140a (pTyr849)
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	50 µl

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
Western Blotting	▪			1/500 - 1/2000

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.

Target Species	Human
Product Form	Purified IgG - liquid
Antiserum Preparation	Antiserum to CD140a (pTyr849) was raised by repeated immunization of rabbits with highly purified antigen. Purified IgG was prepared from whole serum by affinity chromatography.
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.02% Sodium Azide 50% Glycerol
Immunogen	Phospho specific-peptide corresponding to residues surrounding tyrosine 849 of human CD140a

External Database Links

UniProt:

[P16234](#)

[Related reagents](#)

Entrez Gene:

[5156](#) PDGFRA [Related reagents](#)

Specificity	<p>Rabbit anti CD140a (pTyr849) recognizes the CD140a also known as platelet-derived growth factor receptor alpha (PDGFRA), when phosphorylated at tyrosine 849. CD140a belongs to the tyrosine protein kinase family and plays an important role in embryonic development, the cell cycle and chemotaxis.</p> <p>PDGF is a major serum mitogen that can exist as a homo- or heterodimeric protein consisting of disulphide-linked PDGF-A and PDGF-B chains (Hart et al. 1990). The PDGF-AA, PDGF-BB and PDGF-AB isoforms have been shown to bind to two distinct cell surface PDGF receptors with different affinities. Whereas PDGF receptor alpha binds all three isoforms with high affinity, PDGF R beta binds PDGF-BB and AB but not PDGF-AA (Hart et al. 1988).</p> <p>Upon ligand binding, CD140a is autophosphorylated at tyrosine 849 leading to an increase in CD140a activity (Zemskov et al. 2009).</p>
Further Reading	<ol style="list-style-type: none">1. Hart, C.E. <i>et al.</i> (1990) Purification of PDGF-AB and PDGF-BB from human platelet extracts and identification of all three PDGF dimers in human platelets. Biochemistry 29 (1): 166-72.2. Hart, C.E. <i>et al.</i> (1988) Two classes of PDGF receptor recognize different isoforms of PDGF. Science 240 (4858): 1529-31.3. Zemskov, E.A. <i>et al.</i> (2009) Regulation of platelet-derived growth factor receptor function by integrin-associated cell surface transglutaminase. J Biol Chem. 284 (24): 16693-703.
Storage	<p>Store at -20°C</p> <p>Storage in frost-free freezers is not recommended.</p> <p>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.</p>
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10049 available at: https://www.bio-rad-antibodies.com/SDS/AHP2568 10049
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

[TidyBlot WESTERN BLOT DETECTION REAGENT:HRP \(STAR209P\)](#)

North & South Tel: +1 800 265 7376

Worldwide Tel: +44 (0)1865 852 700

Europe Tel: +49 (0) 89 8090 95 21

America Fax: +1 919 878 3751

Fax: +44 (0)1865 852 739

Fax: +49 (0) 89 8090 95 50

Email: antibody_sales_us@bio-rad.com

Email: antibody_sales_uk@bio-rad.com

Email: antibody_sales_de@bio-rad.com

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

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