

Datasheet: AHP2568

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 0.02% Sodium Azide

Stabilisers 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

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.

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](#)).

Upon ligand binding, CD140a is autophosphorylated at tyrosine 849 leading to an increase in CD140a activity ([Zemskov et al. 2009](#)).

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	Store at -20°C 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.
----------------	--

Shelf Life	12 months from date of despatch
-------------------	---------------------------------

Health And Safety Information	Material Safety Datasheet documentation #10049 available at: 10049: https://www.bio-rad-antibodies.com/uploads/MSDS/10049.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@549 , DyLight@649 , DyLight@680 , DyLight@800
Sheep Anti Rabbit IgG (2AB02...)	Biotin

Recommended Useful Reagents

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

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	Worldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com
----------------------------------	---	------------------	---	---------------	---

'M336494:181214'

Printed on 02 Jan 2019