

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](#)).

Western Blotting Due to the presence of phosphoproteins in milk, the use of milk based blocking reagents is not recommended. 1% BSA in PBS or TBS Tween should be used instead.

Further Reading

1. Hart, C.E. *et al.* (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. *et al.* (1988) Two classes of PDGF receptor recognize different isoforms of PDGF. [Science 240 \(4858\): 1529-31.](#)
3. Zemskov, E.A. *et al.* (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](#)
Sheep Anti Rabbit IgG (STAR35...) [RPE](#)
Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)
Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)
Sheep Anti Rabbit IgG (2AB02...) [Biotin](#)
Sheep Anti Rabbit IgG (STAR36...) [DyLight®488](#), [DyLight®549](#), [DyLight®649](#),
[DyLight®680](#), [DyLight®800](#)

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

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