Datasheet: 7460-3104

Description:	MOUSE ANTI HUMAN CD140b
Specificity:	CD140b
Other names:	PDGF RECEPTOR BETA
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	PR7212
Isotype:	IgG1
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
Flow Cytometry	▪			25 µg/ml
Immunohistology - Frozen	▪			
Immunohistology - Paraffin	▪			25 µg/ml
Immunoprecipitation	▪			
Western Blotting	▪			
Immunofluorescence	▪			

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 the appropriate negative/positive controls.

Target Species

Human

Species Cross Reactivity

Reacts with: Baboon, Monkey
Does not react with:Mouse, Rat
N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

Product Form

Purified IgG - liquid

Preparation

Purified IgG prepared by affinity chromatography on Protein G from ascites

Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN_3)
Approx. Protein Concentrations	1.0 mg/ml
Immunogen	Human skin fibroblast cell membrane extracts.
External Database Links	**UniProt:** P09619 Related reagents **Entrez Gene:** 5159 PDGFRB Related reagents
RRID	AB_2162788
Specificity	**Mouse anti Human CD140b antibody, clone PR7212** recognizes the extracellular domain of the human PDGF receptor beta subunit. This was confirmed in binding studies using several different cell lines and by its ability to immunoprecipitate PDGF receptor beta complexed with ^{125}I-PDGF-BB (Hart *et al.* 1987). Mouse anti Human CD140b antibody, clone PR7212 does not recognize PDGF receptor alpha. PDGF receptor beta is a member of the class III receptor tyrosine kinase family that also includes M-CSF receptor, SCF receptor and Flt-3. Binding of PDGF-BB induces receptor homodimerization or heterodimerization with PDGF receptor alpha.
Histology Positive Control Tissue	Human breast cancer tissue
References	1. Hart, C.E. *et al.* (1987) Synthesis, phosphorylation, and degradation of multiple forms of the platelet-derived growth factor receptor studied using a monoclonal antibody. J Biol Chem. 262: 10780-5. 2. Hart, C.E. *et al.* (1988) Two classes of PDGF receptor recognize different isoforms of PDGF. Science. 240: 1529-31. 3. Franklin, W.A. *et al.* (1990) In situ distribution of the beta-subunit of platelet-derived growth factor receptor in nonneoplastic tissue and in soft tissue tumors. Cancer Res. 50: 6344-8. 4. Seifert, R.A. *et al.* (1989) Two different subunits associate to create isoform-specific platelet-derived growth factor receptors. J Biol Chem. 264: 8771-8. 5. Krane, J.F. *et al.* (1991) Increased dermal expression of platelet-derived growth factor receptors in growth-activated skin wounds and psoriasis. J Invest Dermatol. 96: 983-6. 6. Palman, C. *et al.* (1992) Platelet-derived growth factor receptor (beta-subunit) immunoreactivity in soft tissue tumors. Lab Invest. 66: 108-15. 7. Ascoli, V. *et al.* (1995) Platelet-derived growth factor receptor immunoreactivity in mesothelioma and nonneoplastic mesothelial cells in serous effusions. Acta Cytol. 39: 613-22.

8. Gilbertson, D.G. *et al.* (2001) Platelet-derived growth factor C (PDGF-C), a novel growth factor that binds to PDGF alpha and beta receptor. J Biol Chem. 276: 27406-14.
9. Wang, J. *et al.* (1994) Cell proliferation in human soft tissue tumors correlates with platelet-derived growth factor B chain expression: an immunohistochemical and in situ hybridization study. Cancer Res. 54: 560-4.
10. Meng, J. *et al.* (2011) Contribution of human muscle-derived cells to skeletal muscle regeneration in dystrophic host mice. PLoS One. 6: e17454.

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 Information	Material Safety Datasheet documentation #10040 available at: 10040: https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos., HRP
Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Rabbit Anti Mouse IgG (STAR8...)	DyLight®800
Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG (STAR70...)	FITC
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC, HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos., DyLight®488, DyLight®680, DyLight®800, FITC, HRP

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL (MCA928)

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

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
'M363425:200528'

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