

Datasheet: VMA00907

**BATCH NUMBER 100005037**

<b>Description:</b>	MOUSE ANTI CD148
<b>Specificity:</b>	CD148
<b>Format:</b>	Purified
<b>Product Type:</b>	PrecisionAb Monoclonal
<b>Clone:</b>	D02/2F7
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	100 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](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Western Blotting	■			1/1000

**The PrecisionAb label is reserved for antibodies that meet the defined performance criteria within Bio-Rad's ongoing antibody validation programme. Click [here](#) to learn how we validate our PrecisionAb range.** Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Further optimization may be required dependent on sample type.

<b>Target Species</b>	Human
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Mouse monoclonal antibody purified by affinity chromatography on Protein G from tissue culture supernatant
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> )
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant protein, aa 36-541 of human CD148

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**External Database****Links****UniProt:**[Q12913](#)[Related reagents](#)**Entrez Gene:**[5795](#)

PTPRJ

[Related reagents](#)

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**Synonyms**

DEP1

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**Specificity**

**Mouse anti CD148 antibody** recognizes receptor-type tyrosine-protein phosphatase eta (RPTP), also known as PTPRJ and DEP1.

CD148 is a transmembrane protein tyrosine phosphatase, a group of proteins important for regulating cell signaling pathways. CD148 expression is found on a wide range of cell types, including epithelial cells, endothelial cells, and hematopoietic cell populations. CD148 appears to function in suppression of growth factor signals, inhibiting cell growth and transformation ([Takahashi et al. 2016](#)). More specifically, CD148 may dephosphorylate proteins important for tumor growth or survival, including ERK1/2 and VEGFR. Tumor-suppressive roles of CD148 have been identified in colon, breast, and thyroid cancers. In contrast, CD148 may promote metastasis in other cancers including breast cancer and glioma cells. In gastric cancer, suppression of CD148 may be an indicator of poor outcomes, suggesting its use as a prognostic marker and therapeutic target ([Sun et al. 2020](#)).

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**Western Blotting**

Mouse anti CD148 antibody detects a band of approximately 250 kDa in HeLa cell lysates

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**Storage**

Store undiluted at -20°C, avoiding repeated freeze thaw cycles

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**Guarantee**

As supplied, 12 months from date of despatch

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**Acknowledgements**

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**Health And Safety Information**

Material Safety Datasheet documentation #10040 available at: <https://www.bio-rad-antibodies.com/SDS/VMA00907>

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**Regulatory**

For research purposes only

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**Product inquiries:** [www.bio-rad-antibodies.com/technical-support](http://www.bio-rad-antibodies.com/technical-support)

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

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