

Datasheet: MCA2283GA

Description:	RAT ANTI MOUSE CD147
Specificity:	CD147
Other names:	NEUROTHELIN
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	OX114
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	▪			1/25 - 1/50
Immunohistology - Frozen	▪			
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting	▪			

Where this antibody 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 antibody for use in their own system using appropriate negative/positive controls.

Target Species	Mouse
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide
Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Fusion protein mCD147dO-2rCD4d3 +4

**External Database
Links**

UniProt:

[P18572](#) [Related reagents](#)

Entrez Gene:

[12215](#) Bsg [Related reagents](#)

Specificity

Rat anti Mouse CD147 antibody, clone OX114 recognizes mouse CD147 (also known as basigin). CD147 is a cell surface glycoprotein that is widely expressed on leukocytes, red cells, platelets and endothelial cells. The reported functions of CD147 are diverse and include involvement in T-cell activation, cell adhesion and induction of matrix metalloproteinases.

Rat anti Mouse CD147 antibody, clone OX114 recognizes both isoforms of CD147, the common form containing 2 Ig-like domains and the rare form containing 3 Ig-like domains.

Rat anti Mouse CD147 antibody, clone OX114 is routinely tested in flow cytometry on mouse splenocytes. Note that for staining of whole blood samples increased amounts of antibody may be required due to the presence of CD147 on erythrocytes.

Flow Cytometry

Use 10ul of the suggested working dilution to label 10⁶ cells in 100ul

References

1. Hanna, S.M. *et al.* (2003) A novel form of the membrane protein CD147 that contains an extra Ig-like domain and interacts homophilically. [BMC Biochemistry 4:17.](#)
2. Agrawal, S.M. *et al.* (2011) A Novel Regulator of Leukocyte Transmigration into the CNS in Multiple Sclerosis and Experimental Autoimmune Encephalomyelitis. [J Neurosci. 31: 669-77.](#)
3. Sweigard, J.H. *et al.* (2011) Adenovirus-mediated delivery of CD46 attenuates the alternative complement pathway on RPE: implications for age-related macular degeneration. [Gene Ther. 18 \(6\): 613-21.](#)

Storage

Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life

18 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

Rabbit Anti Rat IgG (STAR16...)	DyLight®800
Goat Anti Rat IgG (STAR73...)	RPE
Rabbit Anti Rat IgG (STAR21...)	HRP
Rabbit Anti Rat IgG (STAR17...)	FITC

Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...) [DyLight®549](#), [DyLight®649](#), [DyLight®800](#)

Goat Anti Rat IgG (STAR131...) [Alk. Phos.](#), [Biotin](#)

Goat Anti Rat IgG (STAR69...) [FITC](#)

Goat Anti Rat IgG (STAR72...) [HRP](#)

Recommended Negative Controls

[RAT IgG1 NEGATIVE CONTROL \(MCA1211\)](#)

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