

Purified anti-rat CD147 Antibody

Catalog# / Size	204601 / 100 µg
Clone	OX-47
Regulatory Status	RUO
Other Names	OX-47, CE-9
Isotype	Mouse IgG1, κ
Description	CD147 is a 54 kD type I integral transmembrane protein, also called extracellular metalloproteinase inducer (EMMPRIN) or M6 in humans, Basigin or gp42 in mouse, and OX-47 or CE-9 in rat. It is a heavily glycosylated Ig superfamily member and is expressed widely in hematopoietic and non-hematopoietic tissues. CD147 is an adhesion molecule and, through interaction with integrins, plays an important role in fetal, neuronal, blood cells and extracellular matrix development.

Product Details

Verified Reactivity	Rat
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	T blasts from a mixed lymphocyte reaction
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Preparation	The antibody was purified by affinity chromatography.
Concentration	0.5 mg/ml
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C.
Application	FC - Quality tested IHC-F, WB - Reported in the literature, not verified in house
Recommended Usage	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis . For flow cytometric staining, the suggested use of this reagent is ≤ 1.0 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.
Application Notes	Additional reported applications (for the relevant formats) include: immunohistochemical staining of acetone-fixed frozen sections ¹ and Western blotting ² .
Application References (PubMed link indicates BioLegend citation)	1. Glenn M, <i>et al.</i> 1995. <i>Circulation</i> 92:1919. (IHC) 2. Betsuyaku T, <i>et al.</i> 2003. <i>Am. J. Respir. Cell Mol. Biol.</i> 28:600. (WB)
RRID	AB_1186183 (BioLegend Cat. No. 204601)

Antigen Details

Structure	Single chain type I transmembrane 58 kd heavily glycosylated protein. N terminal extracellular part consists of two C2 type Ig-like domains which are highly glycosylated. Recently reported: isoform with an additional membrane-distal Ig-like domain.
Distribution	CD147 is expressed at varying levels in many cells types, including haematopoietic, epithelial, and endothelial cells. Expressed on immature thymocytes and at varying levels on spleen cells, bone marrow cells and macrophages.

Function	CD147 is implicated in multiple functions, such as matrix metalloproteinase induction, cell adhesion, retinal cell development, HIV attachment, embryonic development and T cell activation.
Ligand/Receptor	cyclophilin
Biology Area	Immunology
Molecular Family	Adhesion Molecules, CD Molecules
Antigen References	1. Glenn M, <i>et al.</i> 1995. <i>Circulation</i> 92:1919. 2. Betsuyaku T, <i>et al.</i> 2003. <i>Am. J. Respir. Cell Mol. Biol.</i> 28:600.
Gene ID	25246

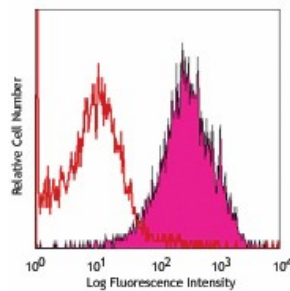
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

Purified anti-rat CD147

Product Data



LOU rat splenocytes stained with purified OX-47, followed by anti-mlgG1 PE

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