

ARG23095 anti-CD147 antibody [OX-47] (PE)

Package: 50 tests

Store at: 4°C

Summary

Product Description	PE-conjugated Mouse Monoclonal antibody [OX-47] recognizes CD147 Mouse anti Rat CD147 antibody, clone OX-47 recognizes a membrane glycoprotein of ~42-48 kDa expressed at high levels on activated lymphocytes but lower levels on resting cells (Paterson et al. 1987). CD147 is also present on some endothelia (Fossum et al. 1991). The OX-47 antigen contains two Ig-like domains and an unusual transmembrane domain with a charged residue (Fossum et al. 1991). CD147 is abundant on activated lymphocytes: it is the homologue of the chicken blood brain barrier antigen HT7. Mouse anti Rat CD147 antibody, clone OX-47 is suitable for use in Western blotting (Foda et al. 2001).
Tested Reactivity	Rat
Tested Application	FACS
Host	Mouse
Clonality	Monoclonal
Clone	OX-47
Isotype	IgG1
Target Name	CD147
Species	Rat
Immunogen	T blasts from a mixed lymphocyte reaction.
Conjugation	PE
Alternate Names	OK; Tumor cell-derived collagenase stimulatory factor; Leukocyte activation antigen M6; TCSF; Extracellular matrix metalloproteinase inducer; OK blood group antigen; CD147; Basigin; M6; EMMPRIN; Collagenase stimulatory factor; CD antigen CD147; 5F7

Application Instructions

Application table	Application	Dilution
	FACS	Neat - 1:20
Application Note	<p>FACS: Use 10 µl of the suggested working dilution to label 10⁶ cells in 100 µl.</p> <p>* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.</p>	

Properties

Form	Liquid
Purification	Purification with Protein G.
Buffer	PBS, 0.09% Sodium azide, 1% BSA and 5% Sucrose
Preservative	0.09% Sodium azide
Stabilizer	1% BSA and 5% Sucrose

Storage instruction Aliquot and store in the dark at 2-8°C. Keep protected from prolonged exposure to light. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	Bsg
Gene Full Name	basigin (Ok blood group)
Background	The protein encoded by this gene is a plasma membrane protein that is important in spermatogenesis, embryo implantation, neural network formation, and tumor progression. The encoded protein is also a member of the immunoglobulin superfamily. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]
Function	Plays an important role in targeting the monocarboxylate transporters SLC16A1, SLC16A3 and SLC16A8 to the plasma membrane. Plays pivotal roles in spermatogenesis, embryo implantation, neural network formation and tumor progression. Stimulates adjacent fibroblasts to produce matrix metalloproteinases (MMPs). Seems to be a receptor for oligomannosidic glycans. In vitro, promotes outgrowth of astrocytic processes. [UniProt]
Calculated Mw	42 kDa
PTM	N-glycosylated.