

ARG62418 anti-CD47 antibody [B6H12.2]

Package: 100 µl
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [B6H12.2] recognizes CD47
Tested Reactivity	Hu
Tested Application	FACS, FuncSt, ICC/IF, IHC-Fr, IP, Neut, WB
Host	Mouse
Clonality	Monoclonal
Clone	B6H12.2
Isotype	IgG1, kappa
Target Name	CD47
Species	Human
Immunogen	Intact CD47 purified from placenta.
Epitope	Ig domain
Conjugation	Un-conjugated
Alternate Names	Leukocyte surface antigen CD47; CD antigen CD47; Antigenic surface determinant protein OA3; MER6; OA3; Protein MER6; IAP; Integrin-associated protein

Application Instructions

Application table	Application	Dilution
	FACS	1 µg for 10 ⁶ cells
	FuncSt	Assay-dependent
	ICC/IF	Assay-dependent
	IHC-Fr	Assay-dependent
	IP	Assay-dependent
	Neut	Assay-dependent
	WB	1 µg/ml
Application Note	Functional study, Neutralizing: This antibody blocks the binding of SIRP alpha (Yoshida, et al.; Latour et al.) and inhibits in assays where CD47-integrin association is required. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	Tonsil.	

Properties

Form	Liquid
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Purification	Protein G purified
Buffer	10mM PBS (pH 7.4), 0.2% BSA and 0.09% Sodium azide
Preservative	0.09% Sodium azide
Stabilizer	0.2% BSA
Concentration	0.2 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. 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

Database links	GeneID: 961 Human Swiss-port # Q08722 Human
Gene Symbol	CD47
Gene Full Name	CD47 molecule
Background	This gene encodes a membrane protein, which is involved in the increase in intracellular calcium concentration that occurs upon cell adhesion to extracellular matrix. The encoded protein is also a receptor for the C-terminal cell binding domain of thrombospondin, and it may play a role in membrane transport and signal transduction. This gene has broad tissue distribution, and is reduced in expression on Rh erythrocytes. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Jul 2010]
Function	Has a role in both cell adhesion by acting as an adhesion receptor for THBS1 on platelets, and in the modulation of integrins. Plays an important role in memory formation and synaptic plasticity in the hippocampus (By similarity). Receptor for SIRPA, binding to which prevents maturation of immature dendritic cells and inhibits cytokine production by mature dendritic cells. Interaction with SIRPG mediates cell-cell adhesion, enhances superantigen-dependent T-cell-mediated proliferation and costimulates T-cell activation. May play a role in membrane transport and/or integrin dependent signal transduction. May prevent premature elimination of red blood cells. May be involved in membrane permeability changes induced following virus infection. [UniProt]
Research Area	Cancer antibody; Immune System antibody
Calculated Mw	35 kDa
Cellular Localization	Cell membrane