ARG23111
anti-CD47 antibody [BRIC126]

Package: 100 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [BRIC126] recognizes CD47 Mouse anti human CD47 antibody, clone BRIC126 recognises the human CD47 cell surface glycoprotein, a heavily N-glycosylated 47-52 kDa molecule. CD47 is expressed on all cells and tissues so far examined, although expression is reduced on erythrocytes of the rare Rh null phenotype.
Tested Reactivity	Hu, Bov, Dog, Pig, Sheep
Tested Application	FACS, FuncSt, IHC-Fr, IP, WB
Host	Mouse
Clonality	Monoclonal
Clone	BRIC126
Isotype	IgG2b
Target Name	CD47
Species	Human
Immunogen	Human erythrocytes
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	1:10
FuncSt	Assay-dependent
IHC-Fr	Assay-dependent
IP	Assay-dependent
WB	Assay-dependent

Application Note

Functional study: This product contains sodium azide, removal by dialysis is recommended prior to use in functional assays.
WB: This product recognizes CD47 under non-reducing conditions, the CD47 epitope recognized is lost on reduction.
FACS: Use 10 µl of the suggested working dilution to label 10^6 cells in 100 µl.
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

Form	Liquid

Purification	Purification with Protein G.
Buffer	Tris-buffered saline and 0.09% Sodium azide
Preservative	0.09% Sodium azide
Concentration	1 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

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]
Calculated Mw	35 kDa