ARG62418
anti-CD47 antibody [B6H12.2]

Summary

Product Description: Mouse Monoclonal antibody [B6H12.2] recognizes CD47

Tested Reactivity: Hu

Tested Application: FACS, FuncSt, ICC/IF, IHC-Fr, IP, WB

Host: Mouse

Clonality: Monoclonal

Clone: B6H12.2

Isotype: IgG1, kappa

Target Name: CD47

Antigen 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

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<thead>
<tr>
<th>Application</th>
<th>Dilution</th>
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</thead>
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<tr>
<td>FACS</td>
<td>1 µg for 10^6 cells</td>
</tr>
<tr>
<td>FuncSt</td>
<td>Assay-dependent</td>
</tr>
<tr>
<td>ICC/IF</td>
<td>Assay-dependent</td>
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<tr>
<td>IHC-Fr</td>
<td>Assay-dependent</td>
</tr>
<tr>
<td>IP</td>
<td>Assay-dependent</td>
</tr>
<tr>
<td>WB</td>
<td>1 µg/ml</td>
</tr>
</tbody>
</table>

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Positive Control: Tonsil.

Properties

Form: Liquid

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

Cellular Localization: Cell membrane