

ARG58705
anti-CD47 antibodyPackage: 50 µg
Store at: -20°C

Summary

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|---------------------|---|
| Product Description | Rabbit Polyclonal antibody recognizes CD47 |
| Tested Reactivity | Hu |
| Tested Application | IHC-P |
| Host | Rabbit |
| Clonality | Polyclonal |
| Isotype | IgG |
| Target Name | CD47 |
| Species | Human |
| Immunogen | Synthetic peptide corresponding to aa. 308-323 of Human CD47. |
| 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 |
|-------------------|--|---------------|
| | IHC-P | 0.5 - 1 µg/ml |
| Application Note | IHC-P: Antigen Retrieval: Heat mediated. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist. | |

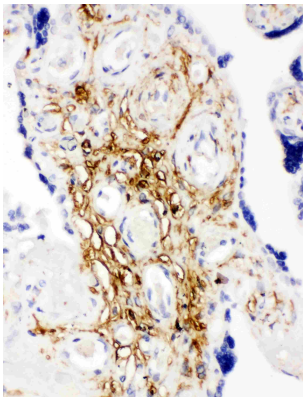
Properties

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|---------------------|--|
| Form | Liquid |
| Purification | Affinity purification with immunogen. |
| Buffer | 0.9% NaCl, 0.2% Na ₂ HPO ₄ , 0.05% Thimerosal, 0.05% Sodium azide and 5% BSA. |
| Preservative | 0.05% Thimerosal and 0.05% Sodium azide |
| Stabilizer | 5% BSA |
| Concentration | 0.5 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

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|-----------------------|--|
| 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 |
| Cellular Localization | Cell membrane; Multi-pass membrane protein. [UniProt] |

Images



ARG58705 anti-CD47 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human placenta tissue stained with ARG58705 anti-CD47 antibody.

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