abcam

Product datasheet

Anti-CD47 antibody [HCD47] (Biotin) ab48517

1 References 1 Image

Overview

Product name	Anti-CD47 antibody [HCD47] (Biotin)
Description	Mouse monoclonal [HCD47] to CD47 (Biotin)
Host species	Mouse
Conjugation	Biotin
Conjugation notes	The solution is free of unconjugated biotin.
Tested applications	**Suitable for:** Flow Cyt
Species reactivity	**Reacts with:** Human
Immunogen	The details of the immunogen for this antibody are not available.
Positive control	Human peripheral blood lymphocytes

Properties

Form	Liquid
Storage instructions	Store at +4°C. Do not freeze.
Storage buffer	Preservative: 0.09% Sodium Azide Constituents: PBS, pH 7.2
Purity	Proprietary Purification
Purification notes	Purity >95% by SDS-PAGE.
Clonality	Monoclonal
Clone number	HCD47
Isotype	IgG1
Light chain type	kappa

Applications

The Abpromise guarantee	Our Abpromise guarantee covers the use of ab48517 in the following tested applications.

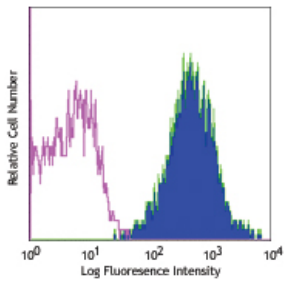
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt		Use 1µg for 10^6 cells. Use 1 µg or less for 10^6 cells in 100 µl volume or 100 µl of whole blood.

Target

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.
Tissue specificity	Very broadly distributed on normal adult tissues, as well as ovarian tumors, being especially abundant in some epithelia and the brain.
Sequence similarities	Contains 1 Ig-like V-type (immunoglobulin-like) domain.
Cellular localization	Cell membrane.

Images



Flow Cytometry - Anti-CD47 antibody [HCD47] (Biotin) (ab48517)

Ab48517, at a concentration of 1 µg or less for 10^6 cells in 100 µl volume or 100 µl of whole blood, staining HCD47 in human peripheral blood lymphocytes by FACS. The staining by this antibody was followed by Sav-PE.

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