

anti-Human CD47 Antibody | anti-CD47 antibody

Anti-CD47 [2D14]

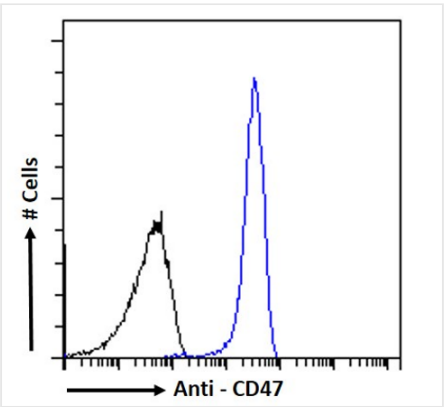
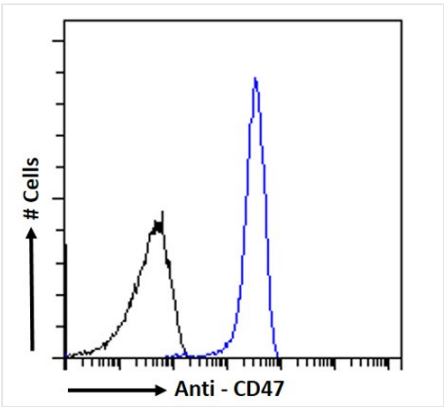
CATALOG # AAA72345	REACTIVITY Human	APPLICATIONS Flow Cytometry, Functional Assay, ELISA
------------------------------	----------------------------	--

PRODUCT SYNONYMS

CD47; Anti-CD47 [2D14]; IAP; MER6; OV-3; Leukocyte surface antigen CD47; Antigenic surface determinant protein OA3; Integrin-associated protein; Protein MER6; ovarian cancer marker; anti-CD47 antibody

PRODUCT SPECIFICATIONS

Reactivity	Human
Isotype	Mouse IgG1 kappa
Clone Number	2D14
Specificity	This antibody binds the extracellular domain of the human CD47, which is broadly distributed on normal adult tissues, as well as ovarian tumors, and is especially abundant in some epithelia and the brain. IAP or integrin associated protein has a role in both cell adhesion by acting as an adhesion receptor for THBS1 on platelets, and in the modulation of integrins. It further plays an important role in memory formation and synaptic plasticity in the hippocampus. It also acts as a receptor for SIRPA. Binding to SIRPA prevents maturation of immature dendritic cells and inhibits cytokine production by mature dendritic cells.
Purity/Purification	Purified. Protein A affinity purified
Form/Format	PBS with 0.02% Proclin 300.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-CD47 antibody	FCM/FACS (Flow Cytometry), ELISA
Preparation and Storage	Store at 4 degree C for up to 3 months. For longer storage, aliquot and store at -20 degree C.



IF (Immunofluorescence)
Immunofluorescence staining of Jurkat cells with Anti-CD47 2D14. Immunofluorescence analysis of paraformaldehyde fixed Jurkat cells immobilized on Shi-fix™ plus cover-slips stained with the chimeric rabbit IgG version of 2D14 (1:100 dilution) for 1h followed by Alexa Fluor 488 secondary antibody (1:1000 dilution), showing membrane staining. The nuclear stain is DAPI (blue). Panels show from left-right, top-bottom, DAPI, merged channels and an isotype control. The isotype control was an unknown specificity antibody (isotype control, black line) or the rabbit IgG version of 2D14 at a dilution of 1:100 for 1h at RT. After washing, the bound antibody was detected using a goat anti-rabbit IgG AlexaFluor 488 antibody at a dilution of 1:1000 and cells analyzed using a FACSCanto flow-cytometer.

FCM/FACS (Flow Cytometry)
Flow cytometry using the Anti-CD47 antibody 2D14. Paraformaldehyde fixed Jurkat cells were stained with anti-unknown specificity antibody (isotype control, black line) or the rabbit IgG version of 2D14 at a dilution of 1:100 for 1h at RT. After washing, the bound antibody was detected using a goat anti-rabbit IgG AlexaFluor 488 antibody at a dilution of 1:1000 and cells analyzed using a FACSCanto flow-cytometer.

ADDITIONAL INFORMATION

Related Product Information for anti-CD47 antibody	The original antibody was generated by immunizing BALB/c mice with recombinant human CD47 extracellular domain with equal volume of adjuvant as an immunogen.
Product Categories/Family for anti-CD47 antibody	cell adhesion; immune checkpoint; cell proliferation; apoptosis; cell migration; signal transduction

NCBI AND UNIPROT INFORMATION

NCBI GI #	1171879
NCBI GeneID	961
UniProt Accession #	Q08722; Q53Y71; Q96A60; A8K198; D3DN59
Molecular Weight	323
NCBI Official Full Name	Leukocyte surface antigen CD47
NCBI Official Synonym Full Names	CD47 molecule
NCBI Official Symbol	CD47
NCBI Official Synonym Symbols	IAP; OA3; MER6
NCBI Protein Information	leukocyte surface antigen CD47; CD47 glycoprotein; Rh-related antigen; integrin associated protein; integrin-associated protein; integrin-associated signal transducer; antigenic surface determinant protein OA3; antigen identified by monoclonal antibody 1D
UniProt Protein Name	Leukocyte surface antigen CD47
UniProt Gene Name	CD47
UniProt Synonym Gene Names	MER6; IAP
UniProt Entry Name	CD47_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/human-antibody/cd47/72345>