

Mouse anti-Human CD47/IAP Monoclonal Antibody | anti-CD47 antibody

CD47/IAP (Integrin Associated Protein)

CATALOG # AAA215307	HOST Mouse	REACTIVITY Human	APPLICATIONS Immunohistochemistry, Western Blot, ELISA
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PRODUCT SYNONYMS

CD47/IAP; Monoclonal Antibody; CD47/IAP (Integrin Associated Protein); Antigenic Surface Determinant Protein OA3; IAP; Integrin Associated Protein; Integrin Associated Signal Transducer; MER6; OA3; Protein MER6; Rh Related Antigen; anti-CD47 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2c, kappa
Clone Number	CD47/2937
Specificity	This antibody reacts with Ig domain of CD47 protein. CD47, originally named integrin-associated protein (IAP), is a 50kDa protein containing five membrane-spanning sequences and a short cytoplasmic tail. CD47 plays a role in both cell adhesion by acting as an adhesion receptor for THBS1 on platelets, and in the modulation of integrins. It is important in memory formation and synaptic plasticity in the hippocampus. CD47 may play a role in membrane transport and/or integrin dependent signal transduction.
Purity/Purification	Purified Ab with BSA and Azide at 200ug/ml OR Purified Ab WITHOUT BSA and Azide at 1.0mg/ml
Form/Format	200ug/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Sequence Length	323
Applicable Applications for anti-CD47 antibody	IHC (Immunohistochemistry), WB (Western Blot), ELISA
Positive Control	MCF-7, HUVEC or OVCA3 cells (IF/FACS). Human placenta, brain or ovarian tumors (IHC).
Immunogen	A recombinant fragment (around aa 18-135) of human CD47 protein (exact sequence is proprietary)
Cellular Localization	Cell Surface
Hu-chromosome Location	3q13.12
Preparation and Storage	Antibody with azide: store at 2 to 8 degree C. Antibody without azide: store at -20 to -80 degree C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

IMAGES



Application Data

Analysis of Protein Array containing more than 19,000 full-length human proteins using CD47 Mouse Monoclonal Antibody (CD47/2937) Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.



WB (Western Blot)

Western Blot Analysis of U87, THP-1 cell lysate using CD47 Mouse Monoclonal Antibody (IAP/2937).



SDS-PAGE

SDS-PAGE Analysis Purified CD47 Mouse Monoclonal Antibody (IAP/2937). Confirmation of Integrity and Purity of Antibody.



IHC (Immunohistochemistry)

Formalin-fixed, paraffin-embedded human Prostate Carcinoma stained with CD47 Mouse Monoclonal Antibody (IAP/2937).



IHC (Immunohistochemistry)

Formalin-fixed, paraffin-embedded human Prostate Carcinoma stained with CD47 Mouse Monoclonal Antibody (IAP/2937).

ADDITIONAL INFORMATION

References	1. Willingham SB et. al. Proc Natl Acad Sci USA 109:6662-7 (2012). 2. Edris B et. al. Proc Natl Acad Sci USA 109:6656-61 (2012).
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NCBI AND UNIPROT INFORMATION

NCBI GI #	1171879
NCBI GeneID	961
UniProt Accession #	Q08722
Molecular Weight	~50kDa
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
UniProt Protein Name	Leukocyte surface antigen CD47
UniProt Gene Name	CD47
UniProt Synonym Gene Names	MER6; IAP

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.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/cd47-iap-antibody-clone-cd47-2937-immunohistochemistry-western-blot-elisa/215307>