

Product Datasheet

CD47 Antibody / IAP (orb2642775)

Catalog Number	orb2642775
Category	Antibodies
Description	<p>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.</p>
Clonality	Monoclonal
Species/Host	Mouse
Isotype	Mouse IgG2c, kappa
Conjugation	Unconjugated
Reactivity	Human
Buffer/Preservatives	1 mg/ml in 1X PBS; rAlbumin free, sodium azide free
Purification	Protein G affinity chromatography
Immunogen	Amino acids 18-135 from the human protein were used as the immunogen for the CD47 antibody.
UniProt ID	Q08722
Tested applications	ELISA, IHC-P, WB
Dilution range	ELISA: order BSA/sodium azide-free format for coating,Western blot: 1-2ug/ml for 60 min at RT,Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT

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Application notes

Optimal dilution of the CD47 antibody should be determined by the researcher.1. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.

Antibody Type

Primary Antibody

Clone Number

CD47/2937

Storage

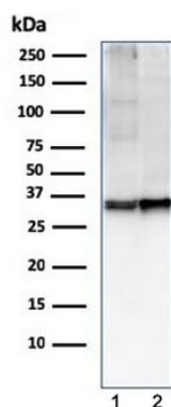
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Note

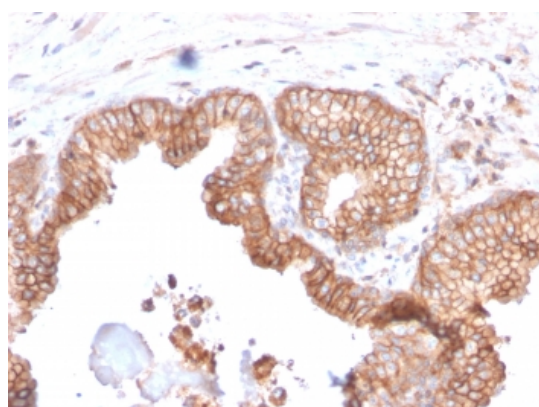
For research use only

Expiration Date

12 months from date of receipt.



Western blot testing of human 1) U-87 MG and 2) ThP-1 cell lysate with CD47 antibody (clone CD47/2937). Expected molecular weight: 35~60 kDa depending on glycosylation level.



IHC staining of FFPE human prostate carcinoma with CD47 antibody (clone CD47/2937). HIER: boil tissue sections in pH9 10mM Tris with 1mM EDTA for 10-20 min and allow to cool before testing.

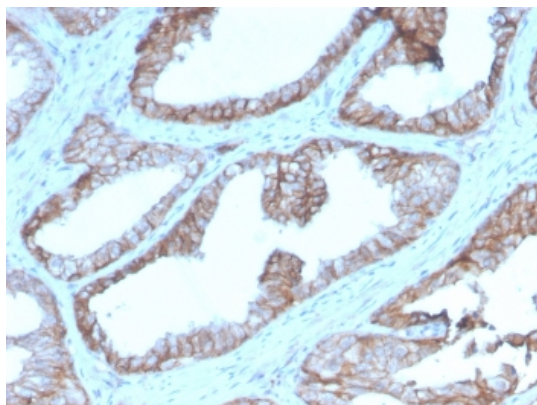
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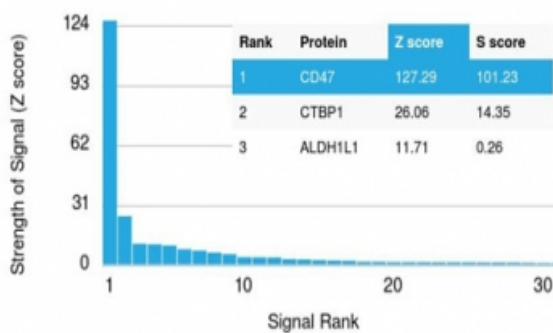
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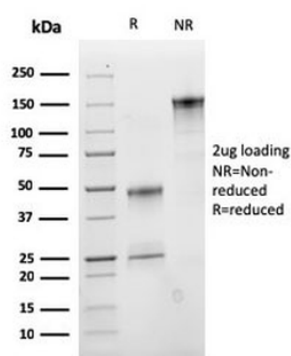


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Human Protein Microarray Specificity Validation



Analysis of HuProt (TM) microarray containing more than 19000 full-length human proteins using CD47 antibody (clone CD47/2937). These results demonstrate the foremost specificity of the CD47/2937 mAb. Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt (TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt (TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.



SDS-PAGE analysis of purified, BSA-free CD47 antibody (clone CD47/2937) as confirmation of integrity and purity.

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