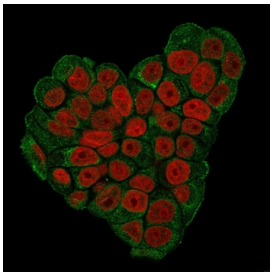
CD47 Antibody / IAP [clone CD47/3019] (V7535)

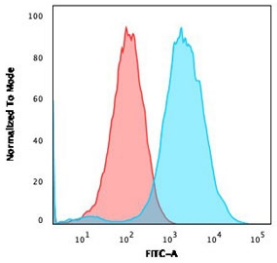
Catalog No.	Formulation	Size
V7535-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V7535-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V7535SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V7535IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

Bulk quote request

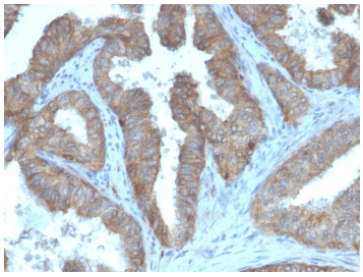
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	CD47/3019
Purity	Protein G affinity chromatography
UniProt	Q08722
Localization	Cell surface, cytoplasmic
Applications	ELISA : order BSA/sodium azide-free format for coating Flow Cytometry : 1-2ug/million cells Immunofluorescence : 1-2ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT
Limitations	This CD47 antibody is available for research use only.



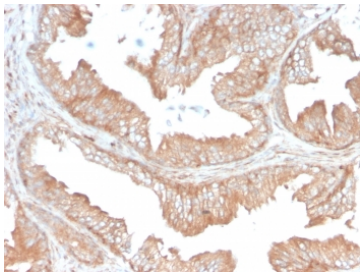
Immunofluorescent staining of paraformaldehyde-fixed human MCF7 cells with CD47 antibody (green, clone CD47/3019) and Reddot nuclear stain (red).



Flow cytometry testing of human MCF7 cells with CD47 antibody (clone CD47/3019); Red=isotype control, Blue= CD47 antibody.



IHC staining of FFPE human prostate carcinoma with CD47 antibody (clone CD47/3019). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 10-20 min and allow to cool before testing.



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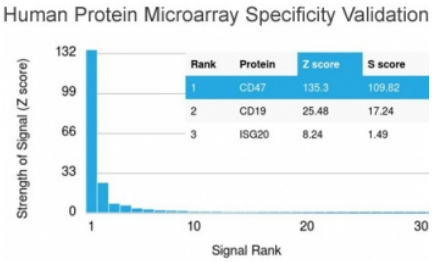
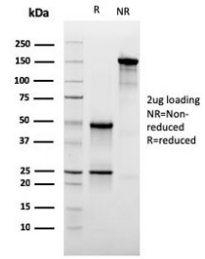


Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using CD47 antibody (clone CD47/3019). These results demonstrate the foremost specificity of the CD47/3019 mAb.
Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with 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 CD47/3019) as confirmation of integrity and purity.

Description

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.

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.

Immunogen

Amino acids 18-135 from the human protein were used as the immunogen for the CD47 antibody.

Storage

Store the CD47 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).