

CD47 Antibody / IAP [clone B6H12.2] (V2069)

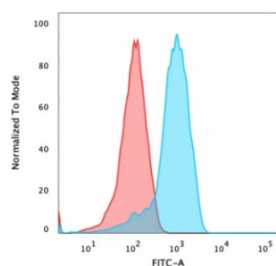
Catalog No.	Formulation	Size
V2069-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V2069-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V2069SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug



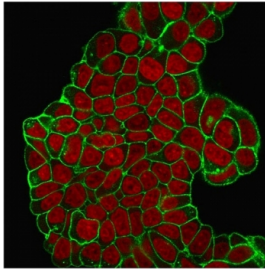
Citations (8)

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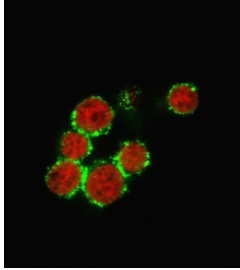
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	B6H12.2
Purity	Protein G affinity chromatography
Gene ID	961
Localization	Cell surface, cytoplasmic
Applications	Western Blot : 1-2ug/ml Flow Cytometry : 1-2ug/million cells Immunofluorescence : 1-2ug/ml
Limitations	This CD47 antibody is available for research use only.



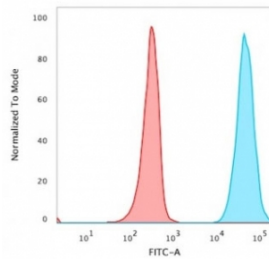
Flow cytometry testing of PFA-fixed human MCF-7 cells with CD47 antibody (clone B6H12.2); Red=isotype control, Blue= CD47 antibody.



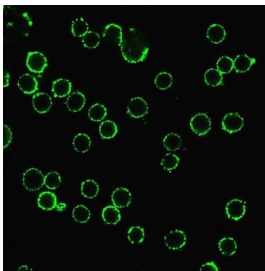
Immunofluorescent staining of PFA-fixed human MCF-7 cells with CD47 antibody (green, clone B6H12.2) and Reddot nuclear stain (red).



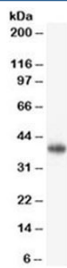
Immunofluorescent staining of PFA-fixed human Jurkat cells with CD47 antibody (green, clone B6H12.2) and Reddot nuclear stain (red).



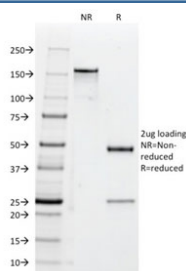
Flow cytometry testing of live human Jurkat cells with CD47 antibody (clone B6H12.2); Red=isotype control, Blue= CD47 antibody.



Immunofluorescent staining of live human Jurkat cells with CD47 antibody (green, clone B6H12.2).



Western blot testing of human brain lysate with CD47 antibody (clone B6H12.2). Predicted molecular weight ~35 kDa but observed at 35-60 kDa depending on glycosylation level.



SDS-PAGE analysis of purified, BSA-free CD47 antibody (clone B6H12.2) as confirmation of integrity and purity.

Description

This antibody reacts with the Ig domain of CD47 protein. It has been shown to inhibit polymorphonuclear neutrophil (PMN) transmigration across cell monolayers and matrix. CD47, originally named integrin-associated protein (IAP), is an ~ 50kDa glycoprotein 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

The concentration stated for each application is a general starting point. Variations in protocols, secondaries and substrates may require the antibody to be titrated up or down for optimal performance.

Immunogen

Intact CD47 purified from placenta was used as the immunogen for this antibody.

Storage

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

Alternate Names

Antigenic Surface Determinant Protein OA3; IAP; IAP antibody, Integrin Associated Protein; Integrin Associated Signal Transducer; MER6; OA3; Protein MER6; Rh Related Antigen, CD47 antibody

References (2)