

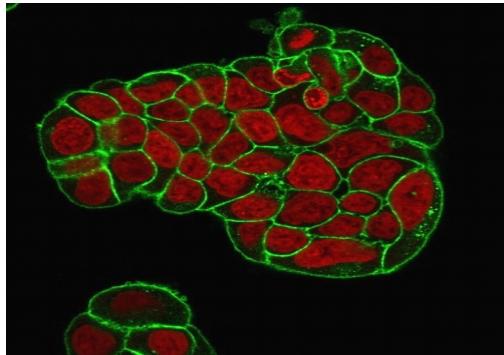
CD47 / IAP (Integrin Associated Protein)

Mouse Monoclonal Antibody [Clone IAP/964 + B6H12.2]

Catalog No	Format	Size	Price (USD)
961-MSM3-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug	219.00
961-MSM3-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug	499.00
961-MSM3-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug	499.00

Human Entrez Gene ID	961
Human SwissProt	Q08722
Human Unigene	446414
Human Gene Symbol	CD47
Human Chromosome Location	3q13.12
Synonyms	Antigenic Surface Determinant Protein OA3; IAP; Integrin Associated Protein; Integrin Associated Signal Transducer; MER6; OA3; Protein MER6; Rh Related Antigen

Immunogen	Recombinant human IAP protein (IAP/964); Intact CD47 Purified from placenta (B6H12.2)
Host / Ig Isotype	Mouse / IgG1, kappa + Mouse / IgG1, kappa
Mol. Weight of Antigen	~50kDa
Cellular Localization	Cell surface, cytoplasmic
Species Reactivity	Human.
Positive Control	MCF-7, HUVEC or OVCA3 cells. Human placenta, brain or ovarian tumors.



Immunofluorescence Analysis of PFA-fixed MCF-7 cells. CD47 Mouse Monoclonal Antibody (IAP/964 + B6H12.2) followed by goat anti-Mouse IgG-CF488 (Green). Nuclei are stained with Redot.

Specificity & Comments

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.

Known Applications & Suggested Dilutions

Functional Studies (Order Ab without Azide)

Western Blot (1-2ug/ml)

Flow Cytometry (1-2ug/million cells)

Immunofluorescence (1-2ug/ml)

Optimal dilution for a specific application should be determined.

Supplied As

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.

Storage and Stability

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Limitations

This antibody is available for research use only and is not approved for use in diagnosis.

Warranty

There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

Key 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).