

Product datasheet for **AM33292PU-S**

CD47 Mouse Monoclonal Antibody [Clone ID: B6H12.2]

Product data:

Product Type:	Primary Antibodies
Clone Name:	B6H12.2
Applications:	FC, FN, IF, IHC, IP, WB
Recommended Dilution:	Functional Assays (Neutralization): Use Azide free Antibody. Blocks binding of SIRP alpha (4,5). Inhibits in assays in which CD47-integrin association is required (6,7,8). Western Blot: 0.5-1 µg/ml. Flow Cytometry: 0.5-1 µg/10 ⁶ cells. Immunoprecipitation: 1-2 µg/500 µg protein lysate. Immunofluorescence: 1-2 µg/ml. Immunohistochemistry on Frozen Sections: 0.5-1 µg/ml for 30 minutes at RT. Recommended Positive Control: HUVEC, OVCA3 cells, Placenta, Brain and Ovarian Tumors.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Intact CD47 purified from placenta. Epitope: Ig Domain.
Specificity:	This antibody reacts with 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 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. Cellular Localization: Cell surface and Cytoplasmic.



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Formulation:	10mM PBS State: Purified State: Liquid purified IgG fraction from Bioreactor Concentrate Stabilizer: 0.05% BSA Preservative: 0.05% Sodium Azide
Concentration:	lot specific
Purification:	Protein A/G Chromatography
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	~50 kDa
Gene Name:	CD47 molecule
Database Link:	Entrez Gene 961 Human Q08722
Background:	CD47, originally named integrin-associated protein (IAP), is a 50-kDa protein containing five membrane spanning sequences and a short cytoplasmic tail. CD47 appears to be important in myeloid cell activation and migration across endothelial and epithelial monolayers. Anti-CD47 antibody has been shown to inhibit polymorphonuclear neutrophil (PMN) transmigration across cell monolayers and matrix. CD47 and its ligands, thrombospondin 1 (TSP-1) and SIRP-a, are important regulators of dendritic cells. Recently, it has been shown that CD47 and TLR2 cross-talk to regulate PMN transmigration. The activation of TLR2/6 by MALP-2, a TLR2 specific agonist, potently inhibits human and murine PMN transmigration. The cross-talk between TLR2 and CD47 may be mediated through MYD88.
Synonyms:	MER6, IAP, OA3