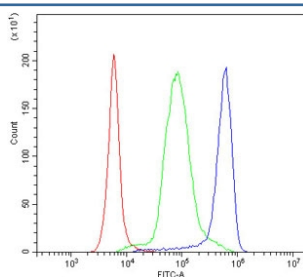


CD47 Antibody / Integrin Associated Protein / IAP (RQ4922)

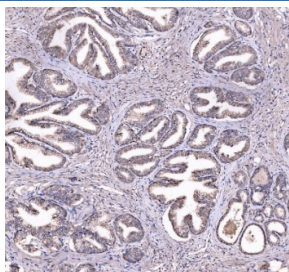
Catalog No.	Formulation	Size
RQ4922	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

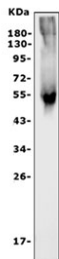
Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	Q08722
Localization	Cell surface, cytoplasmic
Applications	Western Blot : 0.5-1ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml Flow Cytometry : 1-3ug/10 ⁶ cells Direct ELISA : 0.1-0.5ug/ml
Limitations	This CD47 antibody is available for research use only.



Flow cytometry testing of human PBM cells with CD47 antibody at 1ug/10⁶ cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= CD47 antibody.



IHC staining of FFPE human prostate cancer tissue with CD47 antibody at 1ug/ml. HIER: boil tissue sections in pH8 EDTA buffer for 10-20 min and allow to cool before testing.



Western blot testing of human placenta lysate with CD47 antibody at 0.5ug/ml. Predicted molecular weight: 35~60 kDa depending on glycosylation level.

Description

CD47, also known as IAP or MER6, is a transmembrane protein that in humans is encoded by the CD47 gene. CD47 gene belongs to the immunoglobulin superfamily. This gene is mapped to 3q13.12. CD47 gene encodes a membrane protein, which is involved in the increase in intracellular calcium concentration that occurs upon cell adhesion to extracellular matrix. The encoded protein is also a receptor for the C-terminal cell binding domain of thrombospondin, and it may play a role in membrane transport and signal transduction. This gene has broad tissue distribution, and is reduced in expression on Rh erythrocytes.

Application Notes

Optimal dilution of the CD47 antibody should be determined by the researcher.

Immunogen

Amino acids Q19-E323 from the human protein were used as the immunogen for the CD47 antibody.

Storage

After reconstitution, the CD47 antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.