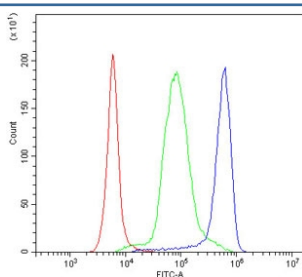


## CD47 Antibody / Integrin Associated Protein / IAP (RQ4922)

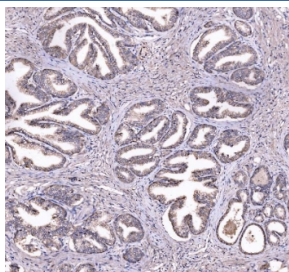
Catalog No.	Formulation	Size
RQ4922	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

**Bulk quote request**

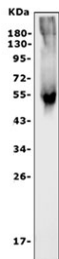
<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human
<b>Format</b>	Antigen affinity purified
<b>Clonality</b>	Polyclonal (rabbit origin)
<b>Isotype</b>	Rabbit IgG
<b>Purity</b>	Antigen affinity purified
<b>Buffer</b>	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
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



Flow cytometry testing of human PBM cells with CD47 antibody at 1ug/10<sup>6</sup> 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.