

CD47 Rabbit mAb
Catalog # AP76921**Specification**

CD47 Rabbit mAb - Product Information

Application	WB, FC, ICC
Primary Accession	Q08722
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Monoclonal Antibody
Calculated MW	35214

CD47 Rabbit mAb - Additional Information

Gene ID 961

Other Names

CD47

Format

Liquid

CD47 Rabbit mAb - Protein Information

Name CD47

Synonyms MER6

Function

Adhesive protein that mediates cell-to-cell interactions (PubMed:[11509594](http://www.uniprot.org/citations/11509594), PubMed:[15383453](http://www.uniprot.org/citations/15383453)). Acts as a receptor for thrombospondin THBS1 and as modulator of integrin signaling through the activation of heterotrimeric G proteins (PubMed:[19004835](http://www.uniprot.org/citations/19004835), PubMed:[7691831](http://www.uniprot.org/citations/7691831), PubMed:[8550562](http://www.uniprot.org/citations/8550562)). Involved in signal transduction, cardiovascular homeostasis, inflammation, apoptosis, angiogenesis, cellular self-renewal, and immunoregulation (PubMed:[11509594](http://www.uniprot.org/citations/11509594), PubMed:[15383453](http://www.uniprot.org/citations/15383453), PubMed:[19004835](http://www.uniprot.org/citations/19004835), PubMed:[27742621](http://www.uniprot.org/citations/27742621), PubMed:[32679764](http://www.uniprot.org/citations/32679764), PubMed:[7691831](http://www.uniprot.org/citations/7691831), PubMed:[8550562](http://www.uniprot.org/citations/8550562)). Plays a role in modulating pulmonary endothelin EDN1 signaling (PubMed:[27742621](http://www.uniprot.org/citations/27742621)). Modulates nitrous oxide (NO) signaling, in response to THBS1, hence playing a role as a pressor agent,

supporting blood pressure (By similarity). Plays an important role in memory formation and synaptic plasticity in the hippocampus (By similarity). Receptor for SIRPA, binding to which prevents maturation of immature dendritic cells and inhibits cytokine production by mature dendritic cells (PubMed:11509594). Interaction with SIRPG mediates cell-cell adhesion, enhances superantigen-dependent T-cell-mediated proliferation and costimulates T-cell activation (PubMed:15383453). Positively modulates FAS-dependent apoptosis in T-cells, perhaps by enhancing FAS clustering (By similarity). Plays a role in suppressing angiogenesis and may be involved in metabolic dysregulation during normal aging (PubMed:32679764). In response to THBS1, negatively modulates wound healing (By similarity). Inhibits stem cell self-renewal, in response to THBS1, probably by regulation of the stem cell transcription factors POU5F1/OCT4, SOX2, MYC/c-Myc and KLF4 (By similarity). May play a role in membrane transport and/or integrin dependent signal transduction (PubMed:7691831). May prevent premature elimination of red blood cells (By similarity).

Cellular Location

Cell membrane; Multi-pass membrane protein

Tissue Location

Very broadly distributed on normal adult tissues, as well as ovarian tumors, being especially abundant in some epithelia and the brain. Macrophages (PubMed:39121194)

CD47 Rabbit mAb - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

CD47 Rabbit mAb - Images