

# Product Information

## Recombinant Anti-Human cd47 Antibody

Cat. No.: **MOM-18538**

This product is for research use only and is not intended for diagnostic use.

### Product Overview

Recombinant Mouse Antibody binds selectively to Human CD47, expressed in Chinese Hamster Ovary cells(CHO)

### Antigen Description

Has a role in both cell adhesion by acting as an adhesion receptor for THBS1 on platelets, and in the modulation of integrins. 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. Interaction with SIRPG mediates cell-cell adhesion, enhances superantigen-dependent T-cell-mediated proliferation and costimulates T-cell activation. May play a role in membrane transport and/or integrin dependent signal transduction. May prevent premature elimination of red blood cells. May be involved in membrane permeability changes induced following virus infection.

### Specific Activity

Tested positive against native antigen.

### Target

CD47

### Immunogen

Intact CD47 purified from placenta.

### Source

Mouse

### Species Reactivity

Human

### Type

IgG

### Expression Host

CHO

### Purity

>95%, by SDS-PAGE with silver staining, under reducing conditions.

### Applications

Suitable for use in Neut, FuncS, ELISA, FC, ICC and most other immunological methods.

### Storage

Store at -20°C. Avoid multiple freeze/thaw cycles.

## ANTIGEN GENE INFORMATION

### Gene Name

[CD47 CD47 molecule \[ Homo sapiens \]](#)

### Official Symbol

CD47

### Synonyms

CD47; CD47 molecule; CD47 antigen (Rh related antigen, integrin associated signal transducer) , MER6; leukocyte surface antigen CD47; antigen identified by monoclonal 1D8; antigenic surface determinant protein OA3; CD47 glycoprotein; IAP; integrin associated protein; OA3; Rh related antigen; Rh-related antigen; integrin-associated protein; integrin-associated signal transducer; CD47 antigen (Rh-related antigen, integrin-associated signal transducer); MER6;

### Gene ID

[961](#)

### mRNA Refseq

[NM\\_001777](#)

### Protein Refseq

[NP\\_001768](#)

### MIM

[601028](#)

### UniProt ID

Q08722

### Chromosome Location

3q13.1-q13.2

### Pathway

Cell surface interactions at the vascular wall, organism-specific biosystem; Cell-Cell communication, organism-specific biosystem; ECM-receptor interaction, organism-specific biosystem; ECM-receptor interaction, conserved biosystem; Hemostasis, organism-specific biosystem; Integrins in angiogenesis, organism-specific biosystem; Signal regulatory protein (SIRP) family interactions, organism-specific biosystem;

### Function

protein binding; thrombospondin receptor activity;