

# Product Information

## **MemDX™ Membrane Protein Mouse Cd47 (CD47 antigen (Rh-related antigen, integrin-associated signal transducer)) for Antibody Discovery**

Cat. No.: **MP1498J**

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

This product is a 16.7 kDa Mouse Cd47 membrane protein expressed in Mammalian cell. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

### Product Specifications

#### **Host Species**

Mouse

#### **Target Protein**

Cd47

#### **Protein Length**

Partial (19-158aa)

#### **Protein Class**

Immune Checkpoints

#### **Molecular Weight**

16.7 kDa

#### **Sequence**

QLLFSNVNSIEFTSCNETVVICIVRNVEAQSTEEMFVKWKLNKSIFYDGNKNSTTTDQNFTSAKISVSDLINGIASLKMDKRDAMV

### Product Description

#### **Activity**

Yes

#### **Expression Systems**

Mammalian cell

#### **Tag**

C-6xHis

#### **Form**

Lyophilized powder

#### **Reconstitution**

Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration).

**Endotoxin**

<1.0 EU/μg

**Purity**

>95% as determined by SDS-PAGE

**Buffer**

0.2 μm filtered 1xPBS, pH 7.4

**Storage**

Store at +4°C for up to one week or several months at -80°C

**Target****Target Protein**

Cd47

**Full Name**

CD47 antigen (Rh-related antigen, integrin-associated signal transducer)

**Introduction**

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. 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 (By similarity).

**Alternative Names**

Cd47Leukocyte surface antigen CD47; Integrin-associated protein; IAP; CD antigen CD47; It; IAP; Itgp; AA407862; AI848868; AW108519; 9130415E20Rik; B430305P08Rik

**Gene ID**

[16423](#)

**UniProt ID**

[Q61735](#)