

Product Information

MemDX™ Membrane Protein Human CD47 (CD47 molecule, 19-139aa) with C-hFc for Antibody Discovery

Cat. No.: **MP1486J**

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

This product is a 40.8 kDa Human 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

Human

Target Protein

CD47

Protein Length

Partial (19-139aa)

Protein Class

Immune Checkpoints

Molecular Weight

40.8 kDa

TMD

1

Sequence

QLLFNKTKSVEFTFCNDTVVIPCFTVNMEAQNTTEVYVKWKFKGRDIYTFDGALNKSTVPTDFSSAKIEVSQLLKGDASLKMDKSDA

Product Description

Activity

Yes

Expression Systems

Mammalian cell

Tag

C-hFc

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 20 mM PB, 150 mM NaCl, 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 molecule

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 (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.

Alternative Names

Antigen identified by monoclonal 1D8; Antigenic surface determinant protein OA3; CD 47; CD47; CD47 antigen (Rh-related antigen; integrin-associated signal transducer); CD47 antigen; CD47 glycoprotein; CD47 molecule; CD47_HUMAN; IAP; Integrin Associated Protein; Integrin associated signal transducer; Integrin-associated protein; Leukocyte surface antigen CD47; MER 6; MER6; OA 3; OA3; OTTHUMP00000041152; OTTHUMP00000041153; Protein MER6; Rh related antigen; Surface antigen identified by monoclonal 1D8

Gene ID

[961](#)

UniProt ID

[Q08722](#)