

Recombinant Protein Technical Manual Recombinant Mouse CD47 Protein (His Tag) (Active) RPES1061

Dundust Date.

Product SKU: RPES1061 **Size:** 10μg

Species: Mouse Expression host: Human Cells

Uniprot: Q61735-2

Protein Information:

Molecular Mass: 16.7 kDa

AP Molecular Mass: 30-60 kDa

Tag: C-6His

Bio-activity: Immobilized Mouse SIRPA -Fc(Cat: PKSM041145) at 2μg/ml(100 μl/well) can bind

Mouse CD47-His. The ED50 of Mouse CD47-His is 5.736 ug/mL.

Purity: > 95 % as determined by SDS-PAGE

Endotoxin: < 1.0 EU per μg as determined by the LAL method.

Storage: Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C.

Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of

reconstituted samples are stable at < -20°C for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from a 0.2 µm filtered solution of PBS, pH7.4.

Reconstitution: Please refer to the printed manual for detailed information.

Application: Functional ELISA

Synonyms: LAP;OA3;Leukocyte Surface Antigen CD47; Antigenic Surface Determinant Protein

OA3; Integrin-Associated Protein; Protein MER6; CD47; MER6

Immunogen Information:

Sequence: Gln19-Pro158

Background:

CD47, also known as Integrin-Associated Protein (IAP) and OA3, is a glycosylated atypical member of the immunoglobulin superfamily. Mouse CD47 is an integral membrane protein that consists of a extracellular domain (ECD) with a single Ig-like domain, five membrane-spanning regions with short intervening loops, and C-terminal cytoplasmic tail. CD47 has a role in both cell adhesion by acting as an adhesion receptor for THBS1 on platelets, and in the modulation of integrins. It plays an important role in memory formation and synaptic plasticity in the hippocampus. As a receptor for SIRPA, it binding to which prevents maturation of immature dendritic cells and inhibits cytokine production by mature dendritic cells. Interaction with SIRPG mediates cellcell adhesion, it enhances superantigen-dependent T-cell-mediated proliferation and costimulates T-cell activation. It may play a role in membrane transport and/or integrin dependent signal transduction. It also prevents premature elimination of red blood cells.