



# Recombinant Protein Technical Manual

**Recombinant Human CD47/IAP Protein (His Tag)(Active)**  
RPES1160

## Product Data:

**Product SKU:** RPES1160

**Size:** 10µg

**Species:** Human

**Expression host:** Human Cells

**Uniprot:** Q08722

## Protein Information:

**Molecular Mass:** 14.76 kDa

**AP Molecular Mass:** 34 kDa

**Tag:** C-His

**Bio-activity:** Immobilized Human SIRPA-Fc(Cat: PKSH033061) at 10µg/ml(100 µl/well) can bind Human CD47-His. The ED50 of Human CD47-His is 4.18 ng/ml .

**Purity:** > 95% as determined by reducing SDS-PAGE.

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

**Storage:** Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°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 10mM Tris-Citrate, 150mM NaCl, pH 8.0.

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

**Application:** Functional ELISA

**Synonyms:** Leukocyte Surface Antigen CD47; Antigenic Surface Determinant Protein OA3; Integrin-Associated Protein; IAP; Protein MER6; CD47; MER6

## Immunogen Information:

**Sequence:** Gln19-Pro139

## Background:

CD47(Integrin-Associated Protein,IAP) is a 40 - 60 kDa variably glycosylated atypical member of the immunoglobulin superfamily. The ubiquitously expressed CD47 binds to SIRP family members on macrophages, neutrophils, and T cells. CD47 is involved in the increase in intracellular calcium concentration that occurs upon cell adhesion to extracellular matrix. The protein is also a receptor for the C-terminal cell-binding domain of thrombospondin, and it may play a role in membrane transport and signal transduction. This protein has broad tissue distribution, and is reduced in expression on Rh erythrocytes.