



# Recombinant Protein Technical Manual

**Recombinant Human FCGR1A/CD64 Protein (His Tag)(Active)**  
RPES2238

## Product Data:

**Product SKU:** RPES2238

**Size:** 10µg

**Species:** Human

**Expression host:** Human Cells

**Uniprot:** P12314

## Protein Information:

**Molecular Mass:** 31.7 kDa

**AP Molecular Mass:** 50-70 kDa

**Tag:** C-His

**Bio-activity:** Immobilized Human SIgG1-Fc(Cat: PKSH032558) at 2µg/ml(100 µl/well) can bind Human CD64-His(Cat: PKSM041277). The ED50 of Human CD64-His is 0.05ug/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 20mM PB, 150mM NaCl, pH 7.4.

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

**Application:** Functional ELISA

**Synonyms:** Ig gamma-4 chain C region,IgG4 Fc

## Immunogen Information:

**Sequence:** Gln16-Pro288

## Background:

CD64 (FcγRI), one of the Fc receptors for IgG, is a membrane glycoprotein that mediates endocytosis, phagocytosis, antibody-dependent cellular cytotoxicity, cytokine release, and superoxide production. CD64 is also structurally distinct, containing an extracellular Ig-interactive region of three Ig-like domains in contrast to the two domains of the low affinity receptors FcγRII and FcγRIII. It is normally expressed on the surfaces of monocytes and macrophages.