



# Recombinant Protein Technical Manual

## Recombinant Mouse CD147/Basigin Protein (His & Fc Tag)

RPES2802

### Product Data:

**Product SKU:** RPES2802

**Size:** 50µg

**Species:** Mouse

**Expression host:** HEK293 Cells

**Uniprot:** NP\_001070652.1

### Protein Information:

**Molecular Mass:** 48.6 kDa

**AP Molecular Mass:** 60-70 kDa

**Tag:** C-His-Fc

**Bio-activity:** Using the Octet RED System, the affinity constant (Kd) of mouse CD147-Fc bound to Human PPIA-His was 0.4 µM.

**Purity:** > 90 % as determined by SDS-PAGE

**Endotoxin:** < 1.0 EU per µg of the protein 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 sterile PBS, pH 7.4

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

**Application:**

**Synonyms:** Basigin; Basic immunoglobulin superfamily; HT7 antigen; Membrane glycoprotein gp42; CD147; Bsg;AI115436;AI325119;EMMPRIN;HT-7

## Immunogen Information:

**Sequence:** Met 1-Arg 209

## Background:

CD147/EMMPRIN (Extracellular Matrix Metalloproteinase Inducer), also known as Basigin (BSG), is a transmembrane glycoprotein with different forms resulted from different modes of glycosylation and N-terminal sequence variants. It is a member of the immunoglobulin superfamily with homology to both the immunoglobulin V domain and MHC class II antigen beta-chain. This protein play important roles in variety of events including spermatogenesis, embryo implantation, neural network formation. CD147 induces the production and release of matrix metalloproteinases (MMP) in the surrounding mesenchymal cells and tumor cells, and thereby promotes invasion, metastasis, growth and survival of malignant cells. Furthermore, CD147 also serves as a receptor for extracellular cyclophilinthe and its association with integrins might be important in signal transduction. Recently, CD147 displays increased expression in many cancers, and it has been previously demonstrated to participate in cancer metastasis and progression. Thus, CD147 and its antibody are used as an effective treatment for malignant cancers.