

**Bsg**

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

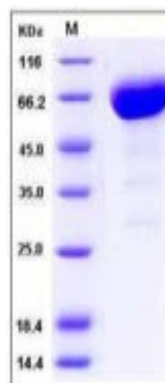
<b>Catalog No.</b>	CRM590A-HisFc CRM590B-HisFc	<b>Quantity:</b>	50 µg 100 µg
<b>Alternate Names:</b>	Basigin, Basic immunoglobulin superfamily, HT7 antigen, Membrane glycoprotein gp42, CD147		
<b>Description:</b>	Basigin (CD147) is a transmembrane glycoprotein with different forms resulting from different 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.		
<b>UniProt ID:</b>	P18572-2		
<b>Accession Number:</b>	NP_001070652.1		
<b>Protein Construction:</b>	A DNA sequence encoding the extracellular domain of mouse BSG isoform 2 (Met 1-Arg 209) was fused with the C-terminal polyhistidine-tagged Fc region of human IgG1 at the C-terminus.		
<b>Source:</b>	HEK293 Cells		
<b>Formulation:</b>	Lyophilized from sterile PBS, pH 7.4 Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.		
<b>Molecular Weight:</b>	The secreted rmCD147/Fc is a disulfide-linked homodimer The reduced monomer consists of 436 aa with a predicted MW of 48.6 kDa and migrates at ~60-70 kDa in reduced SDS-PAGE, due to glycosylation.		
<b>Purity:</b>	> 90 % as determined by SDS-PAGE.		
<b>Endotoxin Level:</b>	< 1.0 EU per µg of the protein as determined by the LAL method		
<b>Biological Activity:</b>	Using the Octet RED System, the affinity constant (Kd) of mouse CD147-Fc bound to Human PPIA-His was 0.4 µM.		
<b>Predicted N-terminal:</b>	Ala 22		
<b>Reconstitution:</b>	<b>Centrifuge vial prior to opening.</b> Add sterile distilled water to a concentration of 0.1 mg/mL and gently pipette the solution up and down the sides of the vial. <b>DO NOT VORTEX.</b> Allow several minutes for complete reconstitution.		



**Storage & Stability:**

Stable for up to 1 year from date of receipt at -20°C to -80°C  
After reconstitution, store working aliquots at -20°C to -80°C.  
**Avoid repeated freeze-thaw cycles.**

SDS-PAGE



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