

## Basigin/CD147 Protein, Mouse (209a.a, HEK293, His)

Cat. No.:	HY-P75481
Synonyms:	Basigin; HT7 antigen; Membrane glycoprotein gp42; Bsg
Species:	Mouse
Source:	HEK293
Accession:	P18572 (M1-R209)
Gene ID:	12215
Molecular Weight:	30-35 kDa

### PROPERTIES

Appearance	Solution
Formulation	Supplied as a 0.2 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

### DESCRIPTION

#### Background

Basigin/CD147 protein is indispensable for normal retinal maturation and development, acting as a crucial cell surface receptor for NXNL1 and contributing significantly to NXNL1-mediated survival of retinal cone photoreceptors. In collaboration with the glucose transporter SLC16A1/GLUT1 and NXNL1, Basigin/CD147 promotes retinal cone survival by enhancing aerobic glycolysis and facilitating the entry of glucose into photoreceptors. It serves as a signaling receptor for cyclophilins, playing an essential role in PPIA/CYPA and PPIB/CYPB-dependent signaling related to the chemotaxis and adhesion of immune cells. Additionally, Basigin/CD147 is pivotal in targeting the monocarboxylate transporters SLC16A1, SLC16A3, and SLC16A8 to the plasma membrane. Acting as a coreceptor for vascular endothelial growth factor receptor 2 (KDR/VEGFR2) in endothelial cells, it enhances VEGFA-mediated activation and downstream signaling, promoting angiogenesis through EPAS1/HIF2A-mediated up-regulation of VEGFA and KDR/VEGFR2. Moreover, Basigin/CD147 plays a crucial role in spermatogenesis, mediating interactions between germ cells and Sertoli cells and proving essential for the development and differentiation of germ cells into round spermatids.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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