

CD147 Rabbit mAb

Catalog # AP76796

Product Information

Application	WB, IHC-P, FC, IP
Primary Accession	P18572
Reactivity	Mouse
Host	Rabbit
Clonality	Monoclonal Antibody
Isotype	IgG
Conjugate	Unconjugated
Purification	Affinity Purified
Calculated MW	42445

Additional Information

Gene ID	12215
Other Names	Bsg
Dilution	WB~~1:1000 IHC-P~~N/A FC~~1:10~50 IP~~N/A
Format	Liquid in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA.
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

Protein Information

Name	Bsg
Function	[Isoform 1]: Essential for normal retinal maturation and development (PubMed: 10967074 , PubMed: 11273674 , PubMed: 11853760). Acts as a retinal cell surface receptor for NXNL1 and plays an important role in NXNL1-mediated survival of retinal cone photoreceptors (PubMed: 25957687). In association with glucose transporter SLC16A1/GLUT1 and NXNL1, promotes retinal cone survival by enhancing aerobic glycolysis and accelerating the entry of glucose into photoreceptors (PubMed: 25957687).
Cellular Location	[Isoform 1]: Cell membrane; Single-pass type I membrane protein {ECO:0000250 UniProtKB:P26453}. Photoreceptor inner segment. Cell projection, cilium, photoreceptor outer segment
Tissue Location	[Isoform 1]: Retina-specific (PubMed:11273674, PubMed:11853760, PubMed:12939332, PubMed:25957687). Expressed in both rods and cones (at protein level) (PubMed:25957687)

Background

Plays an important role in targeting the monocarboxylate transporters SLC16A1, SLC16A3, SLC16A8, SLC16A11 and SLC16A12 to the plasma membrane. Plays pivotal roles in spermatogenesis, embryo implantation, neural network formation and tumor progression. Stimulates adjacent fibroblasts to produce matrix metalloproteinases (MMPS). Seems to be a receptor for oligomannosidic glycans. In vitro, promotes outgrowth of astrocytic processes.

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