

Basigin / Emmprin / CD147 Antibody (clone 5D8)
Mouse Monoclonal Antibody
Catalog # ALS17136**Specification**

Basigin / Emmprin / CD147 Antibody (clone 5D8) - Product Information

Application	IHC-P, IF, WB, FC
Primary Accession	P35613
Other Accession	682
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG2b
Calculated MW	42200

Basigin / Emmprin / CD147 Antibody (clone 5D8) - Additional Information**Gene ID** 682**Other Names**

BSG, 5F7, Basigin, Basigin (Ok blood group), CD147 antigen, Collagenase stimulatory factor, EMMPRIN, OK, OK blood group antigen, TCSF, CD147, M6

Target/Specificity

Human Emmprin / CD147

Reconstitution & Storage

PBS, pH 7.3, 1% BSA, 50% glycerol, 0.02% sodium azide. Store at -20°C. Minimize freezing and thawing.

Precautions

Basigin / Emmprin / CD147 Antibody (clone 5D8) is for research use only and not for use in diagnostic or therapeutic procedures.

Basigin / Emmprin / CD147 Antibody (clone 5D8) - Protein Information**Name** BSG ([HGNC:1116](#))**Function**

[Isoform 1]: Essential for normal retinal maturation and development (By similarity). Acts as a retinal cell surface receptor for NXNL1 and plays an important role in NXNL1-mediated survival of retinal cone photoreceptors (PubMed:<[a href="http://www.uniprot.org/citations/25957687" target="_blank">25957687](http://www.uniprot.org/citations/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:<[a href="http://www.uniprot.org/citations/25957687" target="_blank">25957687](http://www.uniprot.org/citations/25957687)). May act as a potent stimulator of IL6 secretion in multiple cell lines that include monocytes (PubMed:<[a href="http://www.uniprot.org/citations/21620857" target="_blank">21620857](http://www.uniprot.org/citations/21620857)).

Cellular Location

Melanosome. Note=Identified by mass spectrometry in melanosome fractions from stage I to stage IV. [Isoform 2]: Cell membrane; Single-pass type I membrane protein {ECO:0000250|UniProtKB:P26453}. Endosome Endoplasmic reticulum membrane; Single-pass type I membrane protein {ECO:0000250|UniProtKB:P26453} Basolateral cell membrane; Single-pass type I membrane protein {ECO:0000250|UniProtKB:P26453} [Isoform 4]: Cell membrane; Single-pass type I membrane protein {ECO:0000250|UniProtKB:P26453}

Tissue Location

[Isoform 1]: Retina-specific (PubMed:25957687). Expressed in retinal cone photoreceptors (at protein level) (PubMed:25957687). [Isoform 3]: Highly expressed in the bone marrow, fetal liver, lung, testis and thymus.

Volume

50 µl

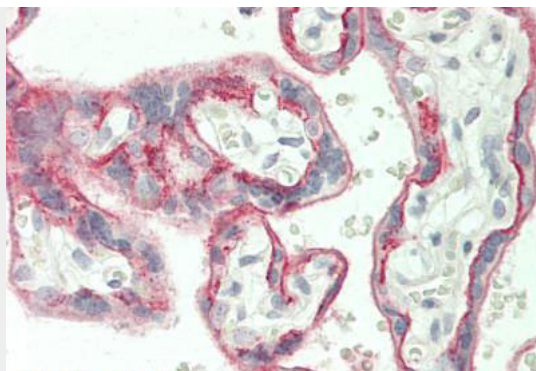
Basigin / Emmprin / CD147 Antibody (clone 5D8) - Protocols

Provided below are standard protocols that you may find useful for product applications.

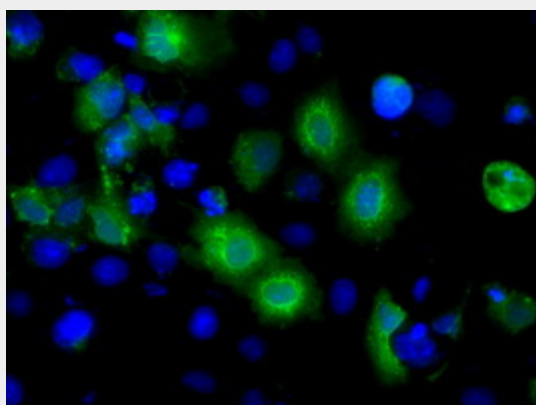
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Basigin / Emmprin / CD147 Antibody (clone 5D8) - Images

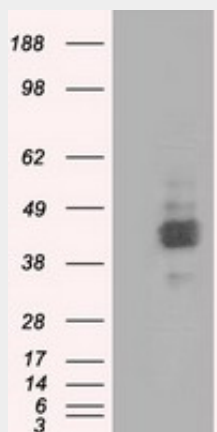
Human Brain, Cortex: Formalin-Fixed, Paraffin-Embedded (FFPE)



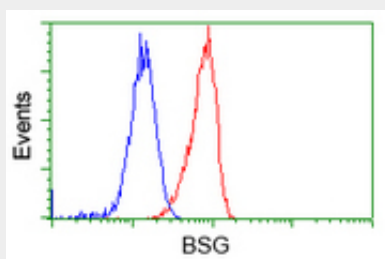
Human Placenta: Formalin-Fixed, Paraffin-Embedded (FFPE)



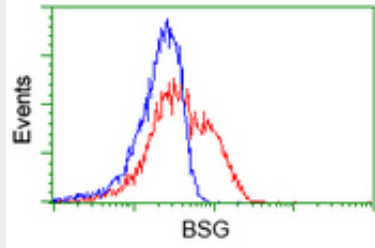
Anti-BSG mouse monoclonal antibody immunofluorescent staining of COS7 cells transiently...



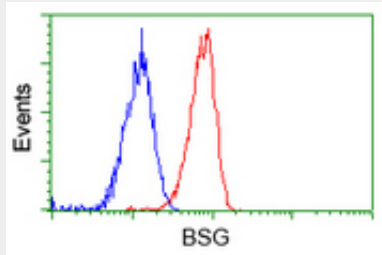
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY BSG...



Flow cytometry of HeLa cells, using anti-BSG antibody, (Red), compared to a nonspecific negative...



HEK293T cells transfected with either overexpress plasmid (Red) or empty vector control plasmid...



Flow cytometry of Jurkat cells, using anti-BSG antibody, (Red), compared to a nonspecific...

Basigin / Emmprin / CD147 Antibody (clone 5D8) - Background

Plays an important role in targeting the monocarboxylate transporters SLC16A1, SLC16A3 and SLC16A8 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.

Basigin / Emmprin / CD147 Antibody (clone 5D8) - References

Kasinrerk W.,et al.J. Immunol. 149:847-854(1992).
Miyachi T.,et al.J. Biochem. 110:770-774(1991).
Biswas C.,et al.Cancer Res. 55:434-439(1995).
Wakasugi H.,et al.Submitted (MAR-1996) to the EMBL/GenBank/DDBJ databases.
Decastro R.,et al.Submitted (MAR-1996) to the EMBL/GenBank/DDBJ databases.