

**CD147 / EMMPRIN / Neurothelin Antibody - With BSA and Azide**  
**Mouse Monoclonal Antibody [Clone CB43 ]**  
**Catalog # AH12366**

**Specification**

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**CD147 / EMMPRIN / Neurothelin Antibody - With BSA and Azide - Product Information**

Application	,3,4,
Primary Accession	<a href="#">P35613</a>
Other Accession	<a href="#">682</a> , <a href="#">501293</a>
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse / IgM
Calculated MW	35kDa (non-reduced); 40kDa (reduced) KDa

**CD147 / EMMPRIN / Neurothelin Antibody - With BSA and Azide - Additional Information**

**Gene ID** 682

**Other Names**

Basigin, 5F7, Collagenase stimulatory factor, Extracellular matrix metalloproteinase inducer, EMMPRIN, Leukocyte activation antigen M6, OK blood group antigen, Tumor cell-derived collagenase stimulatory factor, TCSF, CD147, BSG

**Storage**

Store at 2 to 8°C. Antibody is stable for 24 months.

**Precautions**

CD147 / EMMPRIN / Neurothelin Antibody - With BSA and Azide is for research use only and not for use in diagnostic or therapeutic procedures.

**CD147 / EMMPRIN / Neurothelin Antibody - With BSA and Azide - 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: [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: [25957687](http://www.uniprot.org/citations/25957687)). May act as a potent stimulator of IL6 secretion in multiple cell lines that include monocytes (PubMed: [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.

#### **CD147 / EMMPRIN / Neurothelin Antibody - With BSA and Azide - 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](#)

#### **CD147 / EMMPRIN / Neurothelin Antibody - With BSA and Azide - Images**

#### **CD147 / EMMPRIN / Neurothelin Antibody - With BSA and Azide - Background**

CD147 is a transmembrane glycoprotein of the immunoglobulin superfamily. It is expressed more intensely on thymocytes than on mature peripheral blood T cells. CD147 is important in spermatogenesis, embryo implantation, neural network formation, and tumor progression. CD147 is involved in the regulation of matrix remodeling at the epidermal-dermal interface. It stimulates the production of interstitial collagenase, gelatinase A, stromelysin-1 and various metalloproteinases (MMPs) by fibroblasts. These enzymes, which are typically increased during tissue degradation and wound healing, are important factors in cancer invasion and metastasis.

#### **CD147 / EMMPRIN / Neurothelin Antibody - With BSA and Azide - References**

Kirsch AH et. al. Tissue Antigens. 1997 Aug;50(2):147-52