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CD147 / EMMPRIN / Neurothelin Antibody - With BSA and Azide
Mouse Monoclonal Antibody [Clone BSG/963]
Catalog # AH12369

Specification

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

Application	**,2,3,4,**
Primary Accession	P35613
Other Accession	682, 501293
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**Mouse / IgG1**
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). 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). May act as a potent stimulator of IL6 secretion in multiple cell lines that include monocytes (PubMed: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}

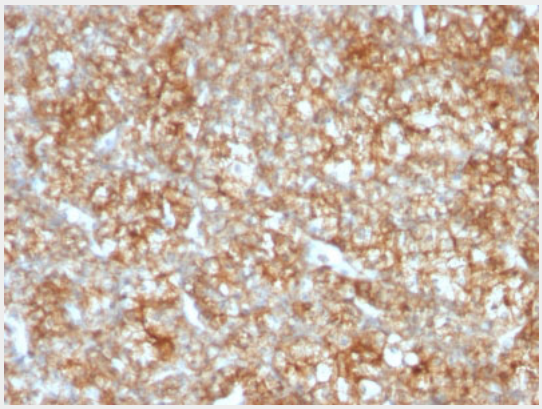
Tissue Location
[Isoform 1]: Retina-specific (PubMed:25957687). Expressed in retinal cone photoreceptors (at protein level) (PubMed:25957687). [Isoform 3]: Highly expressed in the bone marrow, fetal liver, lung, testis and thymus.

CD147 / EMMPRIN / Neurothelin Antibody - With BSA and Azide - Protocols

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

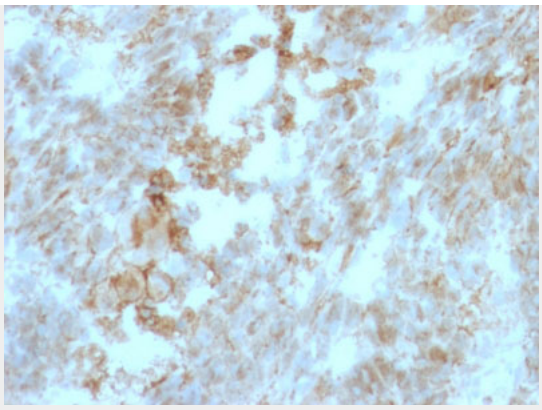
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

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

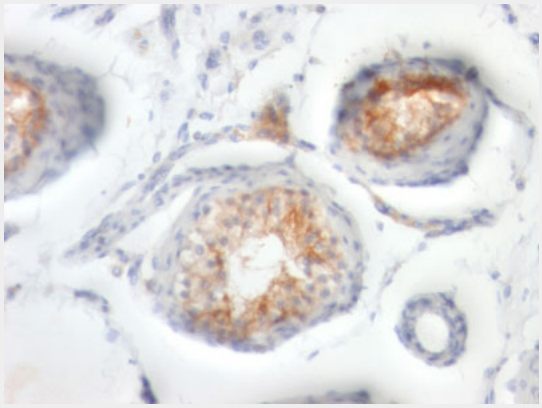


Formalin-fixed, paraffin-embedded human Renal Cell Carcinoma stained with CD147 Monoclonal Antibody (BSG/963).

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Formalin-fixed, paraffin-embedded human Colon Carcinoma stained with CD147 Monoclonal Antibody (BSG/963).



Formalin-fixed, paraffin-embedded human Testicular Carcinoma stained with CD147 Monoclonal Antibody (BSG/963).

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

This MAb recognizes extracellular epitope of human CD147. 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. It stimulates the production of interstitial collagenase, gelatinase A, stromelysin-1 and various metalloproteinases (MMPs) by fibroblasts. These enzymes are important factors in cancer invasion and metastasis.

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

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