

CD147 / EMMPRIN / Neurothelin Antibody - With BSA and Azide

Mouse Monoclonal Antibody [Clone BSG/963]

Catalog # AH12369

Product Information

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| Application | IHC, IF, FC |
| Primary Accession | P35613 |
| Other Accession | 682 , 501293 |
| Reactivity | Human |
| Host | Mouse |
| Clonality | Monoclonal |
| Isotype | Mouse / IgG1 |
| Clone Names | BSG/963 |
| Calculated MW | 42200 |

Additional Information

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|------------------|---|
| 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 |
| Application Note | IHC~~1:100~500 IF~~1:50~200 FC~~1:10~50 |
| 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. |

Protein Information

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| 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). |

Melanosome. Note=Identified by mass spectrometry in melanosome fractions

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|--------------------------|---|
| Cellular Location | 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. |

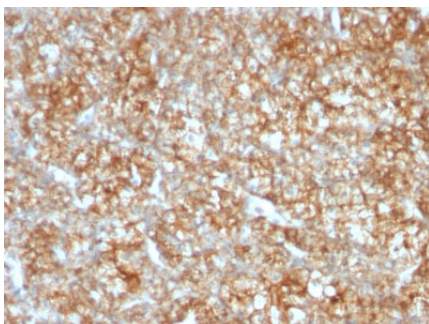
Background

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.

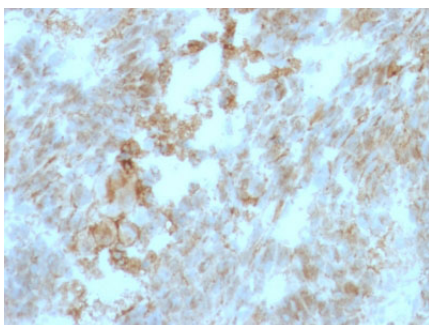
References

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

Images

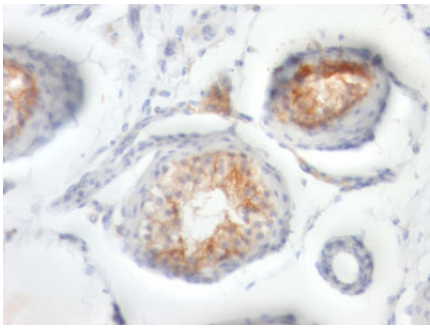


Formalin-fixed, paraffin-embedded human Renal Cell Carcinoma stained with CD147 Monoclonal Antibody (BSG/963).



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).



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.