

## Rabbit CD147 Polyclonal Antibody | anti-CD147 antibody

CD147 Antibody

| CATALOG # | HOST   | REACTIVITY        | APPLICATIONS                                                                       |
|-----------|--------|-------------------|------------------------------------------------------------------------------------|
| AAA321024 | Rabbit | Human, Mouse, Rat | ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot |

### PRODUCT SYNONYMS

CD147; Polyclonal Antibody; CD147 Antibody; 5A11 antigen; 5F7; BASI\_HUMAN; Basigin (Ok blood group); Basigin; Blood brain barrier HT7 antigen; Bsg; CD 147; CD147 antigen; Collagenase stimulatory factor; EMMPRIN; Extracellular matrix metalloproteinase inducer; Leukocyte activation antigen M6; M 6; M6; M6 leukocyte activation antigen; Neurothelin; OK; OK blood group; OK blood group antigen; TCSF; Tumor cell derived collagenase stimulatory factor; Tumor cell-derived collagenase stimulatory factor; anti-CD147 antibody

### PRODUCT SPECIFICATIONS

|                                                 |                                                                                                                                                                                |
|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Rabbit                                                                                                                                                                         |
| Reactivity                                      | Human, Mouse, Rat                                                                                                                                                              |
| Clonality                                       | Polyclonal                                                                                                                                                                     |
| Isotype                                         | IgG                                                                                                                                                                            |
| Specificity                                     | CD147 antibody detects endogenous levels of CD147                                                                                                                              |
| Purity/Purification                             | The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.                                                                                  |
| Form/Format                                     | Liquid<br>Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.                                                                                  |
| Concentration                                   | 1mg/ml (varies by lot)                                                                                                                                                         |
| Sequence Length                                 | 269                                                                                                                                                                            |
| Applicable Applications for anti-CD147 antibody | ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)                                                                       |
| Immunogen                                       | A synthesized peptide derived from human CD147                                                                                                                                 |
| Subcellular Location                            | Cell Membrane. Melanosome. Colocalizes with SLC16A1 and SLC16A8 (By similarity). Identified by mass spectrometry in melanosome fractions from stage I to stage IV.             |
| Tissue Specificity                              | Present only in vascular endothelium in non-neoplastic regions of the brain, whereas it is present in tumor cells but not in proliferating blood vessels in malignant gliomas. |
| Conjugation                                     | Unconjugated                                                                                                                                                                   |
| Preparation and Storage                         | Store at -20 degree C. Stable for 12 months from date of receipt.                                                                                                              |

IMAGES



IF (Immunofluorescence)

AAA321024 staining HuvEc by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.



WB (Western Blot)

Western blot analysis on HuvEc cell lysate using CD147 Antibody, The lane on the left is treated with the antigen-specific peptide.



IHC (Immunohistochemistry)

AAA321024 at 1/200 staining human Oral squamous cell carcinoma sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



IHC (Immunohistochemistry)

AAA321024 at 1/200 staining human Oral squamous cell carcinoma sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

Related Product Information for anti-CD147 antibody

Description: BSG Plays pivotal roles in spermatogenesis, embryo implantation, neural network formation and tumor progression. Stimulates adjacent fibroblasts to produce matrix metalloproteinases (MMPS). May target monocarboxylate transporters SLC16A1, SLC16A3 and SLC16A8 to plasma membranes of retinal pigment epithelium and neural retina. Seems to be a receptor for oligomannosidic glycans. In vitro, promotes outgrowth of astrocytic processes. Enriched on the surface of tumor cells. Up-regulated in gliomas. Its expression levels correlate with malignant potential of the tumor.

Function: Plays an important role in targeting the monocarboxylate transporters SLC16A1, SLC16A3, SLC16A8 and SLC16A11 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.

Subunit Structure: Forms homooligomers in a cis-dependent manner on the plasma membrane. Forms heterooligomers of isoform 2 and isoform 3. Forms a complex with MMP1 at the tumor cell surface. Interacts with ATP1B2, MAG and L1CAM (By similarity). Interacts with AJAP1. Interacts with SLC16A1, SLC16A7 and SLC1A3; probably a BSG dimer is associated with a monocarboxylate transporter dimer. Interacts with PPIL2; regulates BSG transport to the cell membrane. Interacts with SLC16A11 (PubMed:28666119).

Post-translational Modifications: N-glycosylated.

NCBI AND UNIPROT INFORMATION

|                                  |                                                |
|----------------------------------|------------------------------------------------|
| NCBI GI #                        | 1016080631                                     |
| NCBI GeneID                      | 682                                            |
| NCBI Accession #                 | NP_001309172.1                                 |
| NCBI GenBank Nucleotide #        | NM_001322243.1                                 |
| UniProt Accession #              | P35613; Q7Z796; Q8IZL7; A6NJW1; D3YLG5         |
| Molecular Weight                 | Observed: 48; 36 kDa<br>Predicted: 43 kDa      |
| NCBI Official Full Name          | basigin isoform 2                              |
| NCBI Official Synonym Full Names | basigin (Ok blood group)                       |
| NCBI Official Symbol             | BSG                                            |
| NCBI Official Synonym Symbols    | OK; 5F7; TCSF; CD147; EMPRIN; EMMPRIN; SLC7A11 |

|                            |               |
|----------------------------|---------------|
| NCBI Protein Information   | basigin       |
| UniProt Protein Name       | Basigin       |
| UniProt Gene Name          | <b>BSG</b>    |
| UniProt Synonym Gene Names | EMMPRIN; TCSF |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/cd147-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/321024>