

**CD147**  
**Purified Mouse Monoclonal Antibody**  
**Catalog # AO2653a**

**Specification**

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**CD147 - Product Information**

Application	<b>E, WB, FCM, IHC</b>
Primary Accession	<a href="#">P35613</a>
Reactivity	<b>Human</b>
Host	<b>Mouse</b>
Clonality	<b>Monoclonal</b>
Isotype	<b>Mouse IgG1</b>
Calculated MW	<b>42.2kDa KDa</b>

**Immunogen**

Purified recombinant fragment of human CD147 (AA: extra 138-323) expressed in E. Coli.

**Formulation**

Purified antibody in PBS with 0.05% sodium azide

**CD147 - Additional Information**

**Gene ID** 682

**Other Names**

BSG; OK; 5F7; TCSF; EMMPRIN

**Dilution**

E~~ 1/10000  
WB~~ 1/500 - 1/2000  
FCM~~1/200 - 1/400  
IHC~~ 1/200 - 1/1000

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

CD147 is for research use only and not for use in diagnostic or therapeutic procedures.

**CD147 - 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</a>). 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</a>). 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</a>).

### 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 - 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 - Images

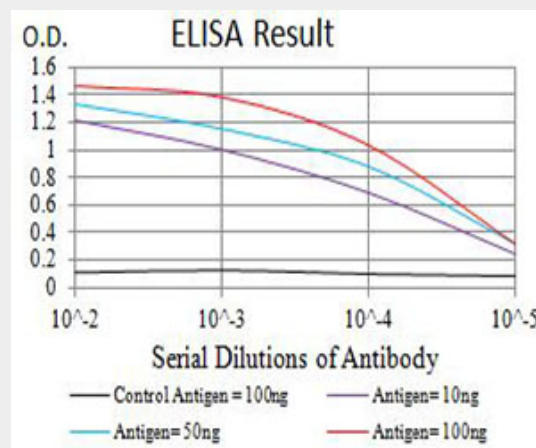


Figure 1: Black line: Control Antigen (100 ng); Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line: Antigen (100 ng)

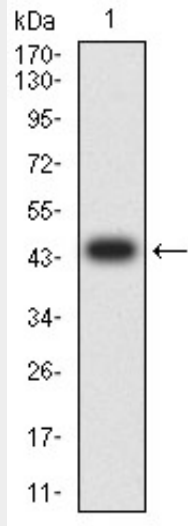


Figure 2:Western blot analysis using CD147 mAb against human CD147 (AA: extra 138-323) recombinant protein. (Expected MW is 46 kDa)

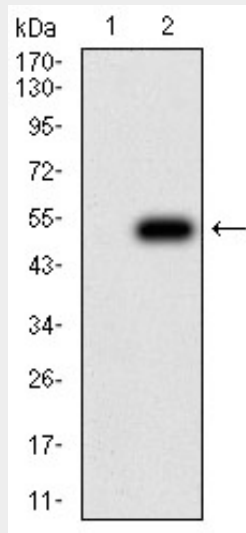


Figure 3:Western blot analysis using CD147 mAb against HEK293 (1) and CD147 (AA: extra 138-323)-hlgGfc transfected HEK293 (2) cell lysate.

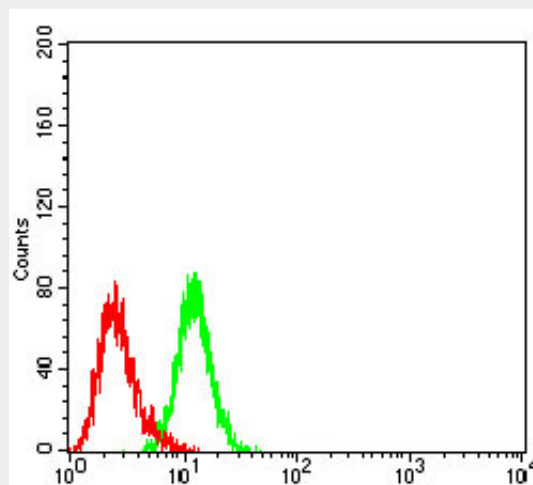


Figure 4:Flow cytometric analysis of K562 cells using CD147 mouse mAb (green) and negative

control (red).

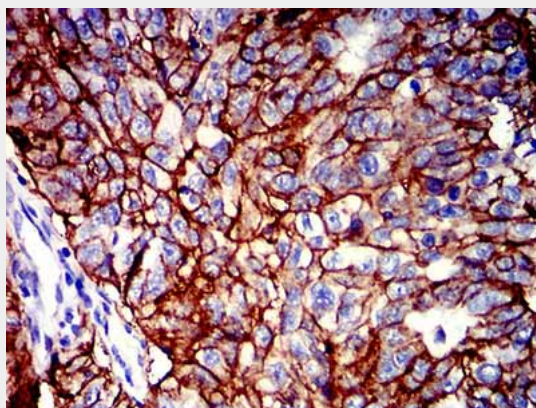
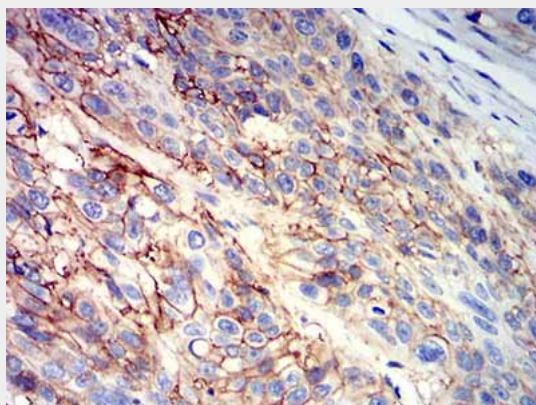


Figure 5: Immunohistochemical analysis of paraffin-embedded ovarian cancer tissues using CD147 mouse mAb with DAB staining.



1/200 - 1/1000

#### **CD147 - References**

1. Oncotarget. 2016 Feb 2;7(5):5613-29. 2. J Biochem. 2016 May;159(5):481-90.