

# CD147

Purified Mouse Monoclonal Antibody  
Catalog # AO2652a

## Product Information

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<b>Application</b>	WB, IHC, ICC, E
<b>Primary Accession</b>	<a href="#">P35613</a>
<b>Reactivity</b>	Human
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Clone Names</b>	3E10C1
<b>Isotype</b>	Mouse IgG1
<b>Calculated MW</b>	42200
<b>Immunogen</b>	Purified recombinant fragment of human CD147 (AA: extra 138-323) expressed in E. Coli.
<b>Formulation</b>	Purified antibody in PBS with 0.05% sodium azide

## Additional Information

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<b>Gene ID</b>	682
<b>Other Names</b>	BSG; OK; 5F7; TCSF; EMMPRIN
<b>Dilution</b>	WB~~ 1/500 - 1/2000 IHC~~1:100~500 ICC~~N/A E~~ 1/10000
<b>Storage</b>	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.
<b>Precautions</b>	CD147 is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	BSG ( <a href="#">HGNC:1116</a> )
<b>Function</b>	[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="#">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="#">25957687</a> ). May act as a potent stimulator of IL6 secretion in multiple cell lines that include monocytes (PubMed: <a href="#">21620857</a> ).

<b>Cellular Location</b>	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}
<b>Tissue Location</b>	[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.

References

1.Oncotarget. 2016 Feb 2;7(5):5613-29.2.J Biochem. 2016 May;159(5):481-90.

Images

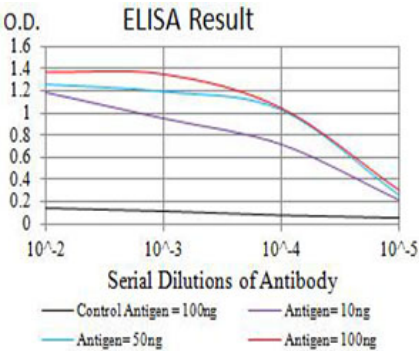


Figure 1:Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)

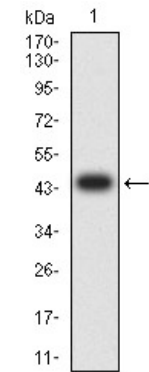


Figure 2:Western blot analysis using CD147 mAb against human CD147 (AA: extra 138-323) recombinant protein. (Expected MW is 46 kDa)

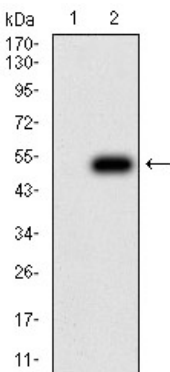


Figure 3:Western blot analysis using CD147 mAb against HEK293 (1) and CD147 (AA: extra 138-323)-hIgGfc transfected HEK293 (2) cell lysate.

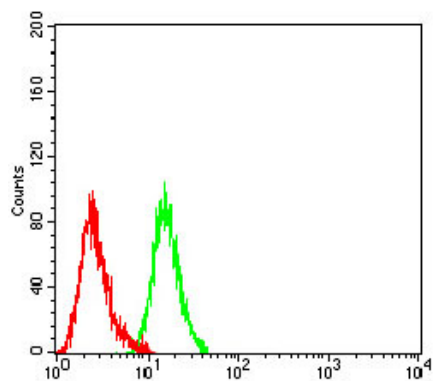


Figure 4:Flow cytometric analysis of HL-60 cells using CD147 mouse mAb (green) and negative control (red).

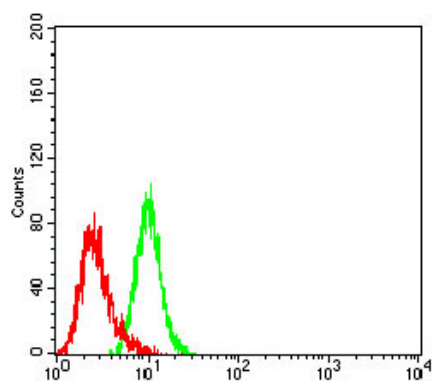


Figure 5:Flow cytometric analysis of K562 cells using CD147 mouse mAb (green) and negative control (red).

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