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CD147

Purified Mouse Monoclonal Antibody
Catalog # AO2652a

Product Information

Application	WB, IHC, ICC, E
Primary Accession	P35613
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	3E10C1
Isotype	Mouse IgG1
Calculated MW	42200
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

Additional Information

Gene ID	682
Other Names	BSG; OK; 5F7; TCSF; EMMPRIN
Dilution	WB~~ 1/500 - 1/2000 IHC~~1:100~500 ICC~~N/A E~~ 1/10000
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.

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.

References

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

Images

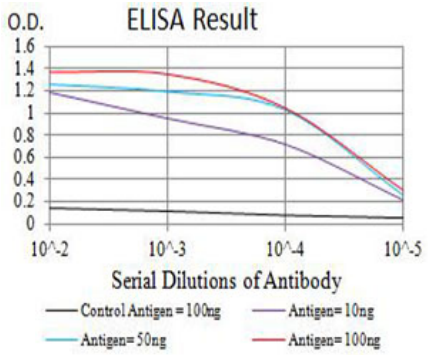


Figure 1:Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)

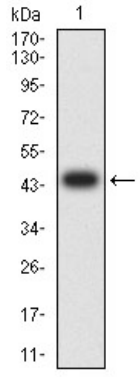


Figure 2:Western blot analysis using CD147 mAb against human CD147 (AA: extra 138-323) recombinant protein. (Expected MW is 46 kDa)

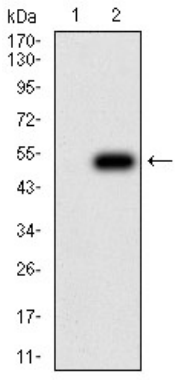


Figure 3:Western blot analysis using CD147 mAb against HEK293 (1) and CD147 (AA: extra 138-323)-hIgGFc transfected HEK293 (2) cell lysate.

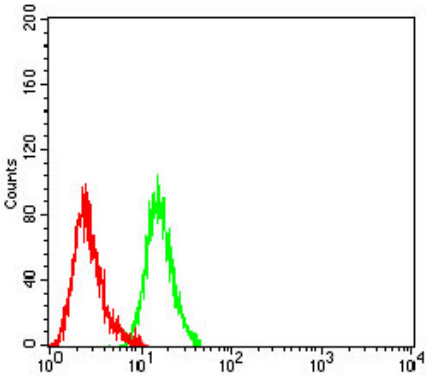


Figure 4:Flow cytometric analysis of HL-60 cells using CD147 mouse mAb (green) and negative control (red).

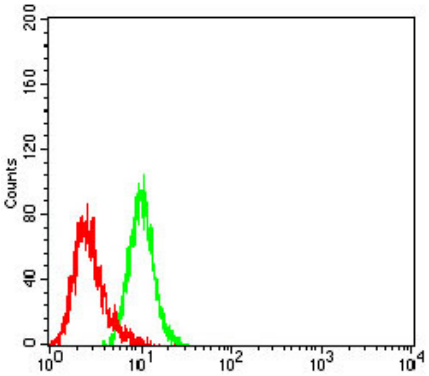


Figure 5:Flow cytometric analysis of K562 cells using CD147 mouse mAb (green) and negative control (red).

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