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CD147
Purified Mouse Monoclonal Antibody
Catalog # AO2652a

Specification

CD147 - Product Information

Application	**E, WB**
Primary Accession	P35613
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**Mouse IgG1**
Calculated MW	**42.2kDa KDa**

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

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: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.

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 Cytomety
- Cell Culture

CD147 - Images

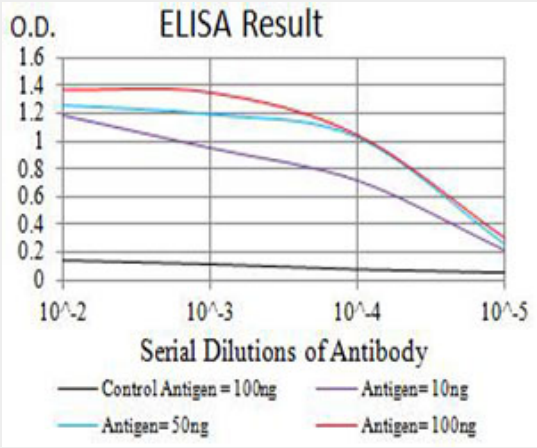

Figure 1:Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)

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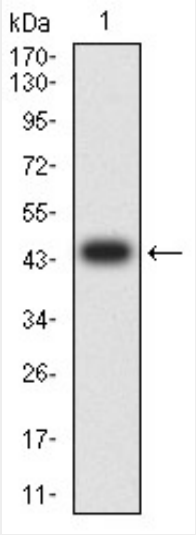

Figure 2:Western blot analysis using CD147 mAb against human CD147 (AA: extra 138-323) recombinant protein. (Expected MW is 46 kDa)

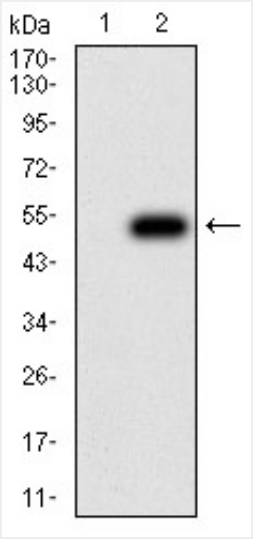

Figure 3:Western blot analysis using CD147 mAb against HEK293 (1) and CD147 (AA: extra 138-323)-hIgGFc transfected HEK293 (2) cell lysate.

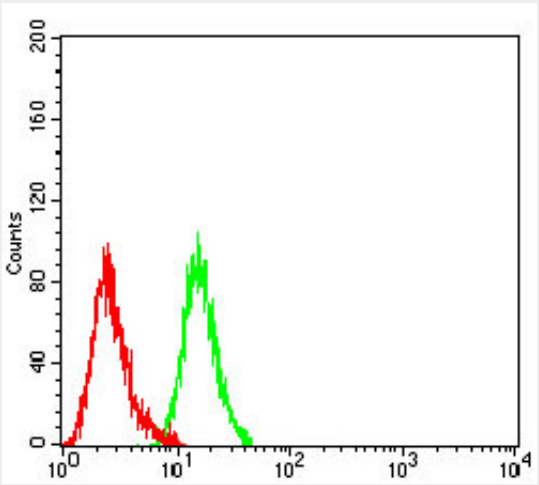

Figure 4:Flow cytometric analysis of HL-60 cells using CD147 mouse mAb (green) and negative

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control (red).

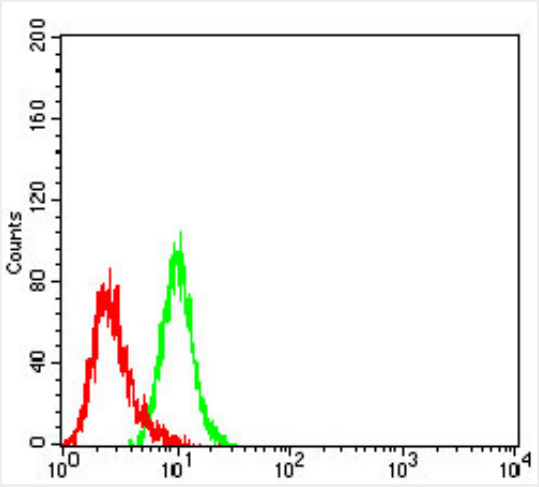

Figure 5:Flow cytometric analysis of K562 cells using CD147 mouse mAb (green) and negative control (red).

CD147 - References

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