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KD-Validated Anti-CD147 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody

Catalog # AGI1420

Specification

KD-Validated Anti-CD147 Rabbit Monoclonal Antibody - Product Information

Application	**WB, FC, ICC**
Primary Accession	P35613
Reactivity	**Human**
Clonality	**Monoclonal**
Isotype	**Rabbit IgG**
Calculated MW	**Predicted, 42 kDa , observed, 33-65 kDa KDa**
Gene Name	**BSG**
Aliases	**BSG; Basigin (Ok Blood Group); EMMPRIN; Tumor Cell-Derived Collagenase Stimulatory Factor; Extracellular Matrix Metalloproteinase Inducer; Basigin; EMPRIN; CD147; Leukocyte Activation Antigen M6; Collagenase Stimulatory Factor; Hepatoma-Associated Antigen; OK Blood Group Antigen; HAntibody18G; TCSF; 5F7; OK; Ok Blood Group; CD147 Antigen**
Immunogen	**A synthesized peptide derived from human CD147**

KD-Validated Anti-CD147 Rabbit Monoclonal Antibody - Additional Information

Gene ID **682**

Other Names

Basigin, 5F7, Collagenase stimulatory factor, Extracellular matrix metalloproteinase inducer, EMMPRIN, Hepatoma-associated antigen, HAb18G, Leukocyte activation antigen M6, OK blood group antigen, Tumor cell-derived collagenase stimulatory factor, TCSF, CD147, BSG (HGNC:1116)

KD-Validated Anti-CD147 Rabbit Monoclonal Antibody - 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}

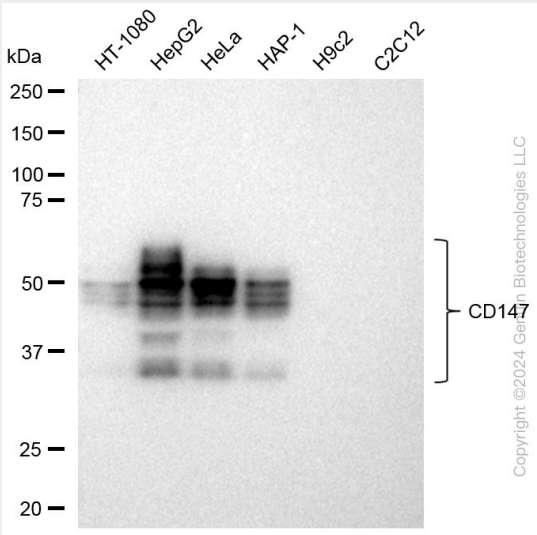
Tissue Location
[Isoform 1]: Retina-specific (PubMed:25957687). Expressed in retinal cone photoreceptors (at protein level) (PubMed:25957687). [Isoform 3]: Highly expressed in the bone marrow, fetal liver, lung, testis and thymus.

KD-Validated Anti-CD147 Rabbit Monoclonal Antibody - 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

KD-Validated Anti-CD147 Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-CD147 antibody (Cat#AGI1420). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-CD147 antibody (Cat#AGI1420, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.

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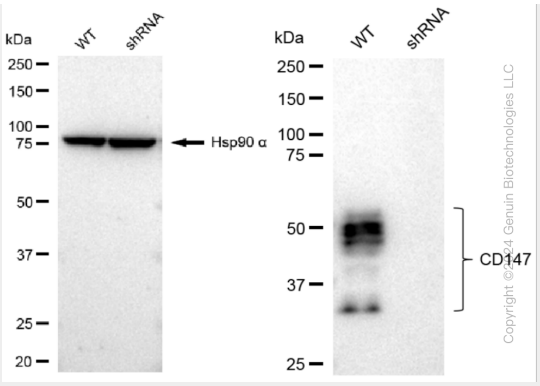
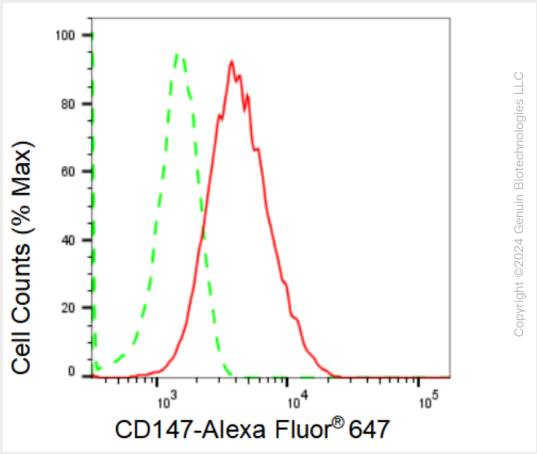
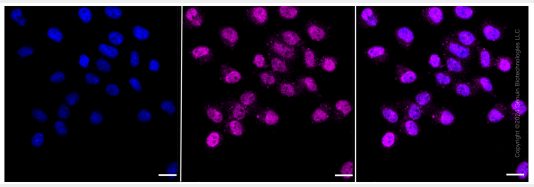


Western blotting analysis using anti-CD147 antibody (Cat#AGI1420). CD147 expression in wild type (WT) and BSG shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-CD147 antibody (Cat#AGI1420, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of CD147 expression in HepG2 cells using CD147 antibody (Cat#AGI1420, 1:2,000). Green, isotype control; red, CD147.



Immunocytochemical staining of HepG2 cells with CD147 antibody (Cat#AGI1420, 1:1,000). Nuclei were stained blue with DAPI; CD147 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: medium. Scale bar: 20 µm.