

**KD-Validated Anti-CD147 Rabbit Monoclonal Antibody**  
**Rabbit monoclonal antibody**  
**Catalog # AGI2391****Specification****KD-Validated Anti-CD147 Rabbit Monoclonal Antibody - Product Information**

|                   |   |
|-------------------|---|
| Application       | WB, FC, ICC   |
| Primary Accession | <a href="#">P35613</a>  |
| Reactivity        | Rat, Human, Mouse   |
| Clonality         | Monoclonal  |
| Isotype           | Rabbit IgG  |
| Calculated MW     | Predicted, 42 kDa ; Observed, 33-58 kDa   |
| Gene Name         | KDa   |
| Aliases           | BSG<br>BSG; Basigin (Ok Blood Group); EMMPRIN;<br>Tumor Cell-Derived Collagenase<br>Stimulatory Factor; Extracellular Matrix<br>Metalloproteinase Inducer; Basigin;<br>EMPRIN; CD147; Leukocyte Activation<br>Antigen M6; Collagenase Stimulatory<br>Factor; Hepatoma-Associated Antigen; OK<br>Blood Group Antigen; HAntibody18G; TCSF;<br>5F; Ok Blood Group; CD147 Antigen |
| Immunogen         | A synthesized peptide derived from human<br>CD147   |

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

|   |     |
|---|-----|
| Gene ID   | 682 |
| <b>Other Names</b>  |     |
| 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 (<a href="http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=1116" target="_blank">HGNC:1116</a>) |     |

**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:<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

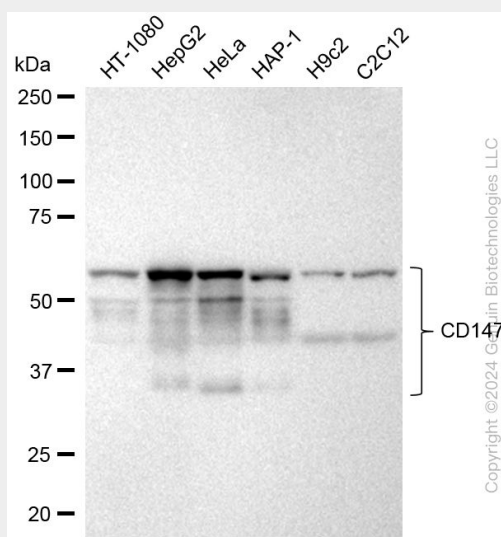
[Isoform 1]: Retina-specific (PubMed:25957687). Expressed in retinal cone photoreceptors (at protein level) (PubMed:25957687). [Isoform 3]: Highly expressed in the bone marrow, fetal liver, lung, testis and thymus.

## KD-Validated Anti-CD147 Rabbit Monoclonal Antibody - Protocols

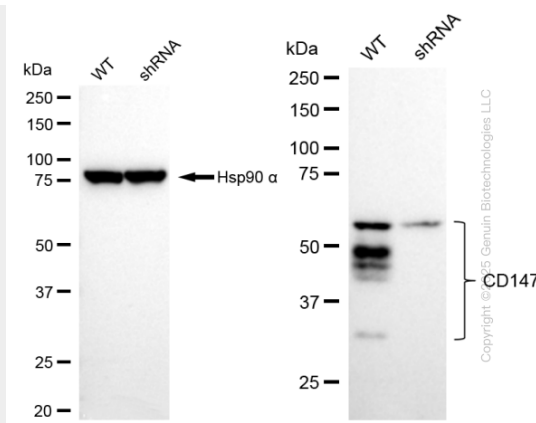
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

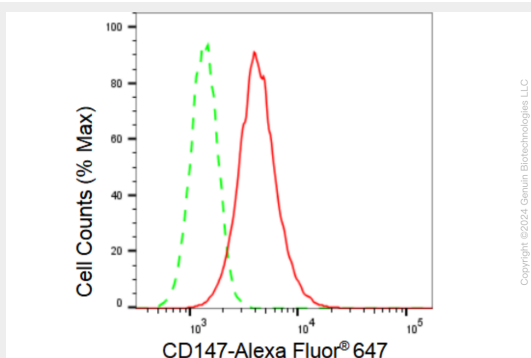
## KD-Validated Anti-CD147 Rabbit Monoclonal Antibody - Images



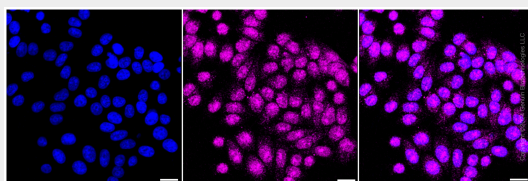
Western blotting analysis using anti-CD147 antibody (Cat#AGI2391). CD147 expression in wild type (WT) and BSG shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-CD147 antibody (Cat#AGI2391, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Western blotting analysis using anti-CD147 antibody (Cat#AGI2391). CD147 expression in wild type (WT) and BSG shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-CD147 antibody (Cat#AGI2391, 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#AGI2391, 1:2,000). Green, isotype control; red, CD147.



Immunocytochemical staining of HepG2 cells with CD147 antibody (Cat#AGI2391, 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.