

**KD-Validated Anti-Basigin Rabbit Monoclonal Antibody**  
**Rabbit monoclonal antibody**  
**Catalog # AGI1799****Specification****KD-Validated Anti-Basigin 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, 35-60 kDa
Gene Name	KDa
Aliases	BSG 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; HAb18G; TCSF; 5F; Ok Blood Group; CD147 Antigen
Immunogen	A synthesized peptide derived from human CD147

**KD-Validated Anti-Basigin 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-Basigin 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

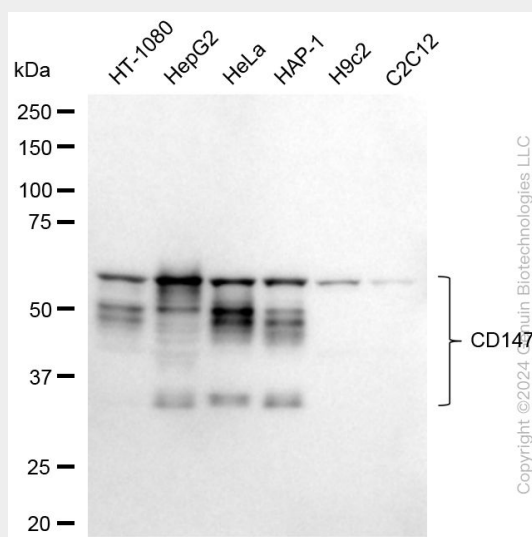
[Isoform 1]: Retina-specific (PubMed:25957687). Expressed in retinal cone photoreceptors (at protein level) (PubMed:25957687). [Isoform 3]: Highly expressed in the bone marrow, fetal liver, lung, testis and thymus.

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

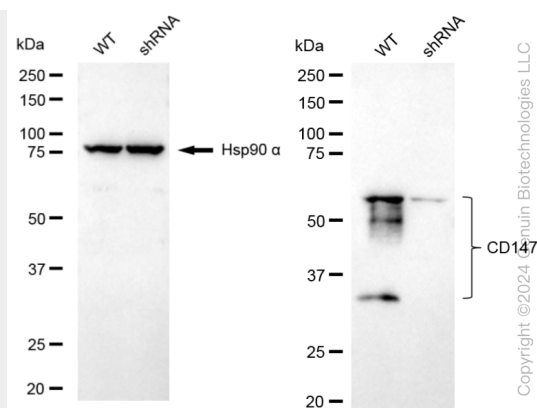
Provided below are standard protocols that you may find useful for product applications.

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

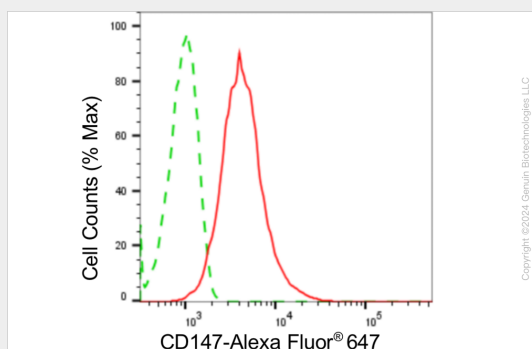
## KD-Validated Anti-Basigin Rabbit Monoclonal Antibody - Images



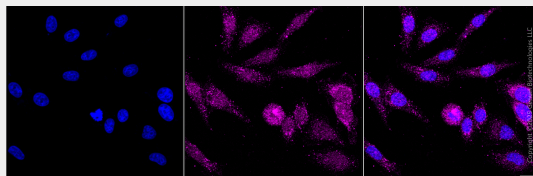
Western blotting analysis using anti-CD147 antibody (Cat#AGI1799). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-CD147 antibody (Cat#AGI1799, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Western blotting analysis using anti-CD147 antibody (Cat#AGI1799). 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#AGI1799, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of CD147 expression in HepG2 cells using anti-CD147 antibody (Cat#AGI1799, 1:2,000). Green, isotype control; red, CD147.



Immunocytochemical staining of HepG2 cells with anti-CD147 antibody (Cat#AGI1799, 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.