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# KD-Validated Anti-Basigin (Ok Blood Group) Mouse Monoclonal Antibody

**Mouse monoclonal antibody**
**Catalog # AGI1899**

## Specification

### KD-Validated Anti-Basigin (Ok Blood Group) Mouse Monoclonal Antibody - Product Information

| | |
|---|---|
| Application | **WB, FC** |
| Primary Accession | P35613 |
| Reactivity | **Human** |
| Clonality | **Monoclonal** |
| Isotype | **Mouse IgG2b** |
| Calculated MW | **Predicted, 42 kDa, observed, 35-70 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; 5F; Ok Blood Group; CD147 Antigen** |
| Immunogen | **Recombinant protein of human BSG** |

### KD-Validated Anti-Basigin (Ok Blood Group) Mouse 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 (<a href="http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=1116" target="_blank">HGNC:1116</a>)

### KD-Validated Anti-Basigin (Ok Blood Group) Mouse 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}

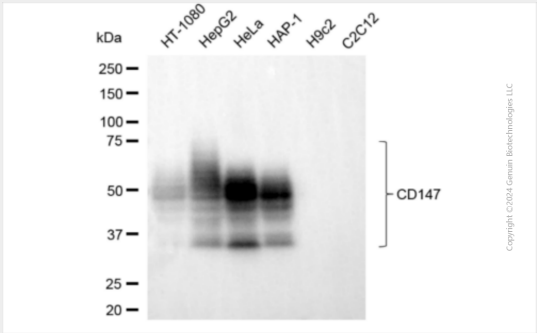
### Tissue Location
[Isoform 1]: Retina-specific (PubMed:25957687). Expressed in retinal cone photoreceptors (at protein level) (PubMed:25957687). [Isoform 3]: Highly expressed in the bone marrow, fetal liver, lung, testis and thymus.

## KD-Validated Anti-Basigin (Ok Blood Group) Mouse 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-Basigin (Ok Blood Group) Mouse Monoclonal Antibody - Images




Western blotting analysis using anti-CD147 antibody (Cat#AGI1899). 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#AGI1899, 1:5,000) and HRP-conjugated goat anti-mouse secondary antibody respectively.

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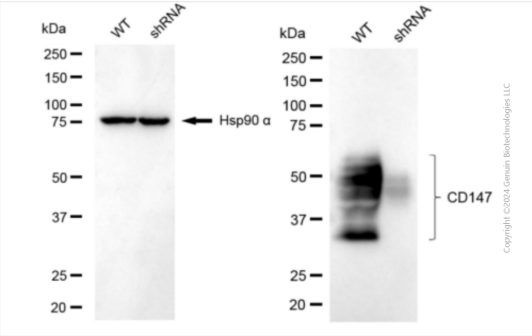
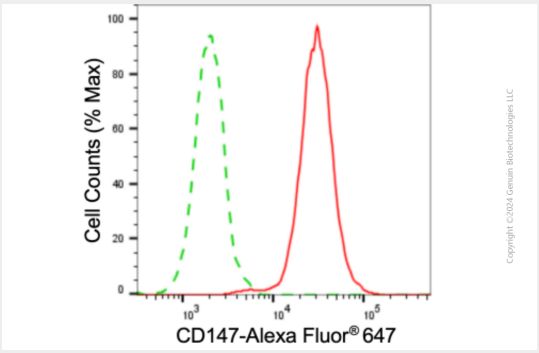



Western blotting analysis using anti-CD147 antibody (Cat#AGI1899). CD147 expression in wild type (WT) and BSG shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-CD147 antibody (Cat#AGI1899, 1:5,000) and HRP-conjugated goat anti-mouse secondary antibody respectively.




Flow cytometric analysis of CD147 expression in HeLa cells using anti-CD147 antibody (Cat#AGI1899, 1:2,000). Green, isotype control; red, CD147.