

## BSG Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP17142c

### Product Information

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<b>Application</b>	WB, E
<b>Primary Accession</b>	<a href="#">P35613</a>
<b>Other Accession</b>	<a href="#">NP_001719.2</a> , <a href="#">NP_940991.1</a>
<b>Reactivity</b>	Human
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	Rabbit IgG
<b>Clone Names</b>	RB21145
<b>Calculated MW</b>	42200
<b>Antigen Region</b>	96-124

### Additional Information

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<b>Gene ID</b>	682
<b>Other Names</b>	Basigin, 5F7, Collagenase stimulatory factor, Extracellular matrix metalloproteinase inducer, EMMPRIN, Leukocyte activation antigen M6, OK blood group antigen, Tumor cell-derived collagenase stimulatory factor, TCSF, CD147, BSG
<b>Target/Specificity</b>	This BSG antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 96-124 amino acids from the Central region of human BSG.
<b>Dilution</b>	WB~~1:1000 E~~Use at an assay dependent concentration.
<b>Format</b>	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
<b>Storage</b>	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
<b>Precautions</b>	BSG Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

### Protein Information

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<b>Name</b>	BSG ( <a href="#">HGNC:1116</a> )
<b>Function</b>	[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.

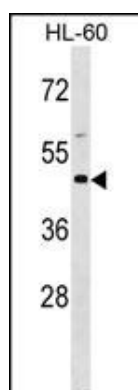
## Background

The protein encoded by this gene is a plasma membrane protein that is important in spermatogenesis, embryo implantation, neural network formation, and tumor progression. The encoded protein is also a member of the immunoglobulin superfamily. Multiple transcript variants encoding different isoforms have been found for this gene.

## References

Bao, W., et al. Am. J. Physiol., Cell Physiol. 299 (5), C1212-C1219 (2010) :  
Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)  
Rucci, N., et al. Cancer Res. 70(15):6150-6160(2010)  
Gou, X.X., et al. Zhonghua Yi Xue Za Zhi 90(18):1264-1267(2010)  
Bougatef, F., et al. PLoS ONE 5 (8), E12265 (2010) :

## Images



BSG Antibody (Center) (Cat. #AP17142c) western blot analysis in HL-60 cell line lysates (35ug/lane). This demonstrates the BSG antibody detected the BSG protein (arrow).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.