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BSG Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP17142c

Specification

BSG Antibody (Center) - Product Information

Application	**WB,E**
Primary Accession	P35613
Other Accession	NP_001719.2, NP_940991.1
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**42200**
Antigen Region	**96-124**

BSG Antibody (Center) - Additional Information

Gene ID 682

Other Names
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

Target/Specificity
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.

Dilution
WB~~1:1000
E~~Use at an assay dependent concentration.

Format
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.

Storage
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.

Precautions
BSG Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

BSG Antibody (Center) - 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}

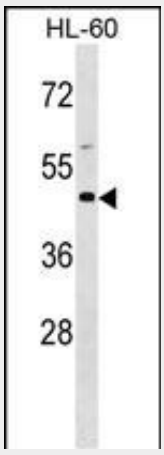
Tissue Location
[Isoform 1]: Retina-specific (PubMed:25957687). Expressed in retinal cone photoreceptors (at protein level) (PubMed:25957687). [Isoform 3]: Highly expressed in the bone marrow, fetal liver, lung, testis and thymus.

BSG Antibody (Center) - 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

BSG Antibody (Center) - 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).

BSG Antibody (Center) - 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.

BSG Antibody (Center) - 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) :