BSG Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	BSG, Polyclonal Antibody
Full Product Name	BSG, ID (BSG, Basigin, 5F7, Collagenase stimulatory factor, Extracellular matrix metalloproteinase inducer, Leukocyte activation antigen M6, OK blood group antigen, Tumor cell-derived collagenase stimulatory factor, CD147) (MaxLight 490)
Product Gene Name	anti-BSG antibody
Product Synonym Names	BSG; Basigin; 5F7; Collagenase stimulatory factor; Extracellular matrix metalloproteinase inducer; Leukocyte activation antigen M6; OK blood group antigen; Tumor cell-derived collagenase stimulatory factor; CD147
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight490.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight490 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	42,200 Da
Chromosome Location	Chromosome: 19; NC_000019.9 (571277..583493). Location: 19p13.3
OMIM	109480
3D Structure	ModBase 3D Structure for P35613
Immunogen	BSG antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 95-124 amino acids from the Central region of human BSG.
Conjugate	MaxLight490
Note	Preservative Free
Product Categories/Family for anti-BSG antibody	Antibodies; CD Markers
Applications Tested/Suitable for anti-BSG antibody	Western Blot (WB), FLISA
Application Notes for anti-BSG antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-BSG antibody	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.
Product References and Citations for anti-BSG antibody	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).

Other Notes	Small volumes of anti-BSG antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for BSG purchase	MBS6279072 is an antibody targeting BSG. Also known as BSG, ID (BSG, Basigin, 5F7, Collagenase stimulatory factor, Extracellular matrix metalloproteinase inducer, Leukocyte activation antigen M6, OK blood group antigen, Tumor cell-derived collagenase stimulatory factor, CD147) (MaxLight 490). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for BSG. It may not necessarily be applicable to this product.

NCBI GI #	38372919
NCBI GeneID	682
NCBI Accession #	NP_001719.2
NCBI Related Accession #	NP_940991.1
UniProt Primary Accession #	P35613
UniProt Secondary Accession #	Q7Z796; Q8IZL7; A6NJW1; D3YLG5
UniProt Related Accession #	P35613
GenBank Nucleotide #	NM_001728.3
NCBI Official Full Name	basigin isoform 1
NCBI Official Synonym Full Names	basigin (Ok blood group)
NCBI Official Symbol	BSG
NCBI Official Synonym Symbols	M6; OK; 5F7; TCSF; CD147; EMMPRIN
UniProt Protein Name	Basigin
UniProt Synonym Protein Names	5F7; Collagenase stimulatory factor; Extracellular matrix metalloproteinase inducer; EMMPRIN; Leukocyte activation antigen M6; OK blood group antigen; Tumor cell-derived collagenase stimulatory factor
Protein Family	Basigin
UniProt Gene Name	BSG
UniProt Synonym Gene Names	EMMPRIN; TCSF
UniProt Entry Name	BASI_HUMAN
NCBI Protein Information	basigin; CD147 antigen; OK blood group antigen; collagenase stimulatory factor; leukocyte activation antigen M6; extracellular matrix metalloproteinase inducer; tumor cell-derived collagenase stimulatory factor

UniProt Comments for BSG	BSG: Plays pivotal roles in spermatogenesis, embryo implantation, neural network formation and tumor progression. Stimulates adjacent fibroblasts to produce matrix metalloproteinases (MMPS). May target monocarboxylate transporters SLC16A1, SLC16A3 and SLC16A8 to plasma membranes of retinal pigment epithelium and neural retina. Seems to be a receptor for oligomannosidic glycans. In vitro, promotes outgrowth of astrocytic processes. Enriched on the surface of tumor cells. Up-regulated in gliomas. Its expression levels correlate with malignant potential of the tumor. Forms homooligomers in a cis-dependent manner on the plasma membrane. Forms a complex with MMP1 at the tumor cell surface. Interacts with SLC16A1 and SLC1A3; probably a BSG dimer is associated with a monocarboxylate transporter dimer. Interacts with ATP1B2, MAG and L1CAM. Interacts with AJAP1. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral; Immunoglobulin superfamily Chromosomal Location of Human Ortholog: 19p13.3 Cellular Component: Golgi membrane; focal adhesion; membrane; mitochondrion; integral to plasma membrane; melanosome; plasma membrane; sarcolemma; acrosomal membrane; lipid raft Molecular Function: mannose binding; protein binding Biological Process: response to peptide hormone stimulus; extracellular matrix organization and biogenesis; response to cAMP; decidualization; odontogenesis of dentine-containing teeth; response to mercury ion; cellular metabolic process; extracellular matrix disassembly; cell surface receptor linked signal transduction; blood coagulation; pyruvate metabolic process; leukocyte migration; embryo implantation Disease: Blood Group--ok
Research Articles on BSG	**1.** EMMPRIN expression is enhanced in macrophages and smooth muscle cells on unstable coronary artery plaques from acute coronary syndrome patients.
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