BSG Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	BSG, Polyclonal Antibody
Full Product Name	BSG Polyclonal Antibody
Product Gene Name	anti-BSG antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	PBS with 0.02% sodium azide, 50% glycerol, pH 7.3.
Purity/Purification	Affinity Purification
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	19kDa; 22kDa; 29kDa; 42kDa
OMIM	109480
3D Structure	ModBase 3D Structure for P35613
Immunogen	Recombinant protein of human BSG (NP_940991.1).
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-BSG antibody	Western Blot (WB), Immunofluorescence (IF)
Application Notes for anti-BSG antibody	WB: 1:500-1:2000 IF: 1:50-1:200
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.
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	MBS8571311 is an antibody targeting BSG. Also known as BSG Polyclonal Antibody. 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
UniProt Primary Accession #	P35613
UniProt Related Accession #	P35613

GenBank Nucleotide #	NP_001719.2
NCBI Official Full Name	basigin isoform 1
NCBI Official Synonym Full Names	basigin (Ok blood group)
NCBI Official Symbol	BSG
NCBI Official Synonym Symbols	OK; 5F7; TCSF; CD147; EMPRIN; EMMPRIN; SLC7A11
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
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.** study aims to look for gene expression-based prognostic markers in multiple myeloma, and investigate the relationship between CD147 and key glycolytic enzymes (LDHA, PDK1 and PKM2) that are the regulators of Warburg effect
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