BSG monoclonal antibody, clone MEM-M6/1 (APC)

Catalog # MAB5047 Size 100 Reactions

Specification

Product Description	Mouse monoclonal antibody raised against recombinant BSG.
Immunogen	Recombinant Fc fusion protein corresponding to BSG.
Host	Mouse
Theoretical MW (kDa)	50-60
Reactivity	Human
Specificity	This antibody recognizes an epitope in the N-terminal Ig domain (D1) of CD147 (Neurothelin), a 50-60 KDa type I transmembrane glycoprotein primarily expressed on all leukocytes, red blood cells, platelets and endothelial cells; it is not expressed by resting lymphocytes. This antibody is a high-affinity antibody capable of binding to unstimulated peripheral blood T cells.
Form	Liquid
Conjugation	APC
Isotype	IgG1
Recommend Usage	Flow Cytometry (10 ul in human blood cells 100 ul in whole blood or 10^6 cells in a suspension) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.2% BSA, 0.09% sodium azide)
Storage Instruction	Store in the dark at 4°C. Do not freeze. Avoid prolonged exposure to light. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Flow Cytometry

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Gene Info — BSG

Entrez GeneID	682
Gene Name	BSG
Gene Alias	5F7, CD147, EMMPRIN, M6, OK, TCSF
Gene Description	basigin (Ok blood group)
Omim ID	109480 111380
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a plasma membrane protein that is important in spermatoge nesis, embryo implantation, neural network formation, and tumor progression. The encoded protei n is also a member of the immunoglobulin superfamily. Multiple transcript variants encoding differ ent isoforms have been found for this gene. [provided by RefSeq
Other Designations	CD147 antigen|M6 leukocyte activation antigen|OK blood group antigen|basigin|collagenase stim ulatory factor|extracellular matrix metalloproteinase inducer

Publication Reference

- Exosomal Protease Cargo as Prognostic Biomarker in Colorectal Cancer.

  Natalia V Yunusova, Elena A Zambalova, Marina R Patysheva, Elena S Kolegova, Sergey G Afanas'ev, Olga V Cheremisina, Alina E Grigor'eva, Svetlana N Tamkovich, Irina V Kondakova

  Asian Pac J Cancer Prev 2021 Mar; 22(3):861-869.

- Metalloproteinases at the surface of small extrcellular vesicles in advanced ovarian cancer: Relationships with ascites volume and peritoneal canceromatosis index.

  Yunusova NV, Patysheva MR, Molchanov SV, Zambalova EA, Grigor'eva AE, Kolomiets LA, Ochirov MO, Tamkovich SN, Kondakova IV.

  Clinica Chimica Acta 2019 Mar; 494:116.

  Application: Flow Cyt, Human, Small extracellular vesicles of ovarian cancer patients

- Extracellular matrix metalloproteinase inducer (CD147) is a novel receptor on platelets, activates platelets, and augments nuclear factor kappaB-dependent inflammation in monocytes.

  Schmidt R, Bultmann A, Fischel S, Gillitzer A, Cullen P, Walch A, Jost P, Ungerer M, Tolley ND, Lindemann S, Gawaz M, Schomig A, May AE.

  Circulation Research 2007 Nov; 102(3):302.

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- Cyclophilin B induces integrin-mediated cell adhesion by a mechanism involving CD98-dependent activation of protein kinase C-delta and p44/42 mitogen-activated protein kinases.

  Melchior A, Denys A, Deligny A, Mazurier J, Allain F.

  Experimental Cell Research 2007 Nov; 314(3):616.

- T cell activation-associated epitopes of CD147 in regulation of the T cell response, and their definition by antibody affinity and antigen density.

  Koch C, Staffler G, Huttinger R, Hilgert I, Prager E, Cerny J, Steinlein P, Majdic O, Horejsi V, Stockinger H.

  International Immunology 1999 May; 11(5):777.

  Application: Flow Cyt, Human, PBMCs

Disease

- Cardiovascular Diseases
- Diabetes Mellitus
- Edema

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