

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

Catalog # MAB5047

Size 100 Reactions

### Specification

<b>Product Description</b>	Mouse monoclonal antibody raised against recombinant BSG.
<b>Immunogen</b>	Recombinant Fc fusion protein corresponding to BSG.
<b>Host</b>	Mouse
<b>Theoretical MW (kDa)</b>	50-60
<b>Reactivity</b>	Human
<b>Specificity</b>	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.
<b>Form</b>	Liquid
<b>Conjugation</b>	APC
<b>Isotype</b>	IgG1
<b>Recommend Usage</b>	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.
<b>Storage Buffer</b>	In PBS (0.2% BSA, 0.09% sodium azide)
<b>Storage Instruction</b>	Store in the dark at 4°C. Do not freeze. Avoid prolonged exposure to light. Aliquot to avoid repeated freezing and thawing.
<b>Note</b>	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

### Applications

- Flow Cytometry

## Gene Info — BSG

Entrez GeneID	<a href="#">682</a>
Gene Name	BSG
Gene Alias	5F7, CD147, EMMPRIN, M6, OK, TCSF
Gene Description	basigin (Ok blood group)
Omim ID	<a href="#">109480 111380</a>
Gene Ontology	<a href="#">Hyperlink</a>
Gene Summary	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. [provided by RefSeq]
Other Designations	CD147 antigen M6 leukocyte activation antigen OK blood group antigen basigin collagenase stimulatory factor extracellular matrix metalloproteinase inducer

## Publication Reference

- [Metalloproteinases at the surface of small extracellular 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.

- [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](#)