

## Datasheet

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

**Catalog Number:** MAB5049

**Regulatory Status:** For research use only (RUO)

**Product Description:** Mouse monoclonal antibody raised against recombinant BSG.

**Clone Name:** MEM-M6/1

**Immunogen:** Recombinant Fc fusion protein corresponding to BSG.

**Host:** Mouse

**Theoretical MW (kDa):** 50-60

**Reactivity:** Human

**Applications:** Flow Cyt

(See our web site product page for detailed applications information)

**Protocols:** See our web site at

<http://www.abnova.com/support/protocols.asp> or product page for detailed protocols

**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:** FITC

**Isotype:** IgG1

**Recommend Usage:** Flow Cytometry (20  $\mu$ l in human blood cells 100  $\mu$ l 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.

**Entrez GeneID:** 682

**Gene Symbol:** BSG

**Gene Alias:** 5F7, CD147, EMMPRIN, M6, OK, TCSF

**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]

#### References:

1. 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. *Circ Res.* 2008 Feb 15;102(3):302-9. Epub 2007 Nov 29.
2. 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. *Exp Cell Res.* 2008 Feb 1;314(3):616-28. Epub 2007 Nov 17.
3. 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. *Int Immunol.* 1999 May;11(5):777-86.