



## Anti-BSG monoclonal antibody, clone MEM-M6/1 [R-PE] (CABT-47077MH)

This product is for research use only and is not intended for diagnostic use.

### PRODUCT INFORMATION

#### Product Overview

Mouse anti Human CD147 antibody, clone MEM-M6/1 recognizes the human CD147 cell surface antigen, also known as Basigin, EMMPRIN and collagenase stimulatory factor. CD147 is a 385 amino acid single pass type 1 trans-membrane glycoprotein bearing 3 potential N-glycosylation sites, a single N-terminal (distal) Ig-like C2-type domain and a more proximal Ig-like V-type domain in its extracellular region. Mouse anti Human CD147 antibody, clone MEM-M6/1 was raised and screened against recombinant extracellular region of huCD147 expressed in CHO cells, along with a number of other MEM-M6 clones. Epitope mapping indicates that clone MEM-M6/1 binds to an epitope within the distal Ig-like C-2 type domain. This is confirmed by flow cytometric studies using beads coated with constructs containing only the distal Ig-like or proximal Ig-like domains. Mouse anti Human CD147 antibody, clone MEM-M6/1 binds to both un-stimulated and phytohemagglutinin (PHA) stimulated (activated) T lymphocytes with levels of CD147 enhanced following PHA stimulation. CD147 is also expressed by peripheral blood and endothelial cells as well as many cultured cells of hematopoietic and non-hematopoietic origin. Flow Cytometry Use 10ul of the suggested working dilution to label 10<sup>6</sup> cells or 100ul whole blood.

Specificity	BSG
Immunogen	CD147Rg, consisting of the cDNA coding for the extracellular region of human CD147.
Isotype	IgG1
Source/Host	Mouse
Species Reactivity	Human
Clone	MEM-M6/1
Conjugate	PE

<b>Applications</b>	FC
<b>Format</b>	Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilised
<b>Size</b>	100 tests
<b>Preservative</b>	0.09% Sodium Azide
<b>Storage</b>	Prior to reconstitution store at +4°C. Following reconstitution store at +4°C. DO NOT FREEZE. This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">BSG basigin (Ok blood group) [ Homo sapiens (human) ]</a>
<b>Official Symbol</b>	BSG
<b>Synonyms</b>	BSG; basigin (Ok blood group); M6; OK; 5F7; TCSF; CD147; EMMPRIN; basigin; CD147 antigen; OK blood group antigen; collagenase stimulatory factor; leukocyte activation antigen M6; extracellular matrix metalloproteinase inducer; tumor cell-derived collagenase
<b>Entrez Gene ID</b>	<a href="#">682</a>
<b>Protein Refseq</b>	<a href="#">NP_001719</a>
<b>UniProt ID</b>	P35613
<b>Chromosome Location</b>	19p13.3
<b>Pathway</b>	Basigin interactions; Cell surface interactions at the vascular wall; Degradation of the extracellular matrix; Extracellular matrix organization; Hemostasis; Integrin cell surface interactions; Matrix Metalloproteinases; Metabolism;
<b>Function</b>	mannose binding; protein binding;