



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 106 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

Applications	FC
Format	Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilised
Size	100 tests
Preservative	0.09% Sodium Azide
Storage	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

Gene Name	BSG basigin (Ok blood group) [Homo sapiens (human)]
Official Symbol	BSG
Synonyms	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 collagena
Entrez Gene ID	682
Protein Refseq	NP_001719
UniProt ID	P35613
Chromosome Location	19p13.3
Pathway	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;
Function	mannose binding; protein binding;