



Anti-BSG monoclonal antibody, clone MEM-M6/6 (CABT-47078MH)

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-M6/6 recognizes the Ig-like V-type domain of human CD147, otherwise known as basigin, neurothelin or extracellular matrix metalloproteinase inducer (EMMPRIN). CD147 is a 364 amino acid, ~50-55kDa single pass type I transmembrane glycoprotein and member of the immunoglobulin gene superfamily, containing a single Ig-like C2-type and a single Ig-like V-type domain. CD147 is broadly expressed on peripheral blood cells, endothelial cells, and increased on T cells following activation. CD147 is also strongly expressed on small lung cancer cells and hepatocellular carcinoma. Biological properties of CD147 include the regulation of T cells, integrin functions and cell adhesion, the stimulation of metalloproteinase (MMP) production by fibroblasts, the promotion of astrocyte outgrowths, and roles in tumour progression, neuronal system function and reproduction. There are four distinct isoforms of CD147 described in UniProt entry P35613 resulting from alternative splicing or differing promotor usage, the canonical version described here and three alternative truncated isoforms with alterations and deletions to the N-terminal region. The epitope recognized by mouse anti human CD147, clone MEM-M6/6 lies C-terminally to the altered sequences in these isoforms and clone MEM-M6/6 would therefore be expected to bind to all described forms of human CD147. Mouse anti Human CD147, clone MEM-M6/6 inhibits anti-CD3-induced T cell activation, dependent upon antibody concentration. Flow Cytometry Use 10ul of the suggested working dilution to label 1x10⁶ cells in 100ul. Western Blotting detects a band of approximately 45-60kDa in 293 human fibroblastoid cell lysates under non-reducing conditions.

Specificity	BSG
Immunogen	CD147Rg, consisting of the CDNA coding for the extracellular region of CD147 expressed in CHO cells.
Isotype	IgG1
Source/Host	Mouse

Species Reactivity	Human
Clone	MEM-M6/6
Conjugate	Unconjugated
Applications	FC; FA; WB
Format	Purified IgG - liquid
Size	100 µg
Preservative	None
Storage	in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. 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;