

Product datasheet for **TA399813**

BSG Mouse Monoclonal Antibody [Clone ID: 5F6]

Product data:

Product Type:	Primary Antibodies
Clone Name:	5F6
Applications:	Bl, ELISA, Inhib
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1, kappa
Clonality:	Monoclonal
Immunogen:	The original antibody was generated by immunizing mice with CD147.



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Specificity:	<p>The antibody binds the N domain of CD147. The antibody binds to an epitope on the extracellular domain of CD147 (residues Asp65-Phe74 and Val30-Thr40). CD147 is a type I membrane glycoprotein and is classified into the immunoglobulin-like superfamily, and is expressed in many types of cancer. It is suggested that CD147 is also associated with cancer metastasis, invasion, and chemical drug resistance.</p> <p>The specificity of the antibody was confirmed by competition ELISA. The antibody recognized MDA-MB-231 cells that express native CD147 antigens on tumor cell surface. To assess the ability of the original antibody to block MMP-1 production, NHLF were treated with recombinant a ECD-Flag construct and the MMP-1 production in response to CD147 stimulation was determined using the MMP-1 activity assay. The antibody showed significant inhibition of MMP-1 production. The original antibody was screened for the ability to inhibit CD147-induced MMP-2 or MMP-9 production in co-culture. Results showed the antibody inhibited MMP-2 and MMP-9 production in co-culture. The humanized version of the antibody (IgG1) inhibited CD147-stimulated MMP-1 production by fibroblast in a dose-dependent manner and the MMP-2 production by MDA-MB-231 and NHDF in a dose dependent manner. The humanized version of the antibody was able to inhibit VEGF production by normal human lung fibroblasts (NHLF) stimulated with 10 µg/ml recombinant CD147 for 48 hours. The humanized version of the antibody inhibited more than 40% of VEGF production in co-culture of tumor cells and fibroblast cells. The humanized version of the antibody inhibited angiogenesis in vivo. SCID Beige Mice implanted with MDA-MB-231 human breast carcinoma cells were treated with E+5F6(MulgG2a); the antibody inhibited tumor angiogenesis in Panc-1 matrigel plug model. The antibody showed potential as therapeutic and prophylactic agents (US8618264B2). The structure of the Fab fragment was determined (Teplyakov et al., 2010).</p>
Formulation:	PBS with 0.02% Proclin 300.
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.
Database Link:	P35613
Synonyms:	5F7; Basigin; BSG; Cluster of differentiation 147; Collagenase stimulatory factor; Emmprin; Extracellular matrix metalloproteinase inducer; HAb18G; Hepatoma-associated antigen; Leukocyte activation antigen M6; OK blood group antigen; TCSF; Tumor cell-derived collagenase stimulatory factor