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Forschungsprodukte & Biochemikalien



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Diagnostik & molekulare Diagnostik



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-CD147 [5F6] Bulk Size Ab03169-1.1-BT

Isotype and Format: Mouse IgG1, Kappa

Clone Number: 5F6

Alternative Name(s) of Target: Basigin; Emmprin; 5F7; Collagenase stimulatory factor; Extracellular matrix metalloproteinase inducer; Hepatoma-associated antigen; HAb18G; Leukocyte activation antigen M6; OK blood group antigen; Tumor cell-derived collagenase stimulatory factor; TCSF;BSG; Cluster of differentiation 147

UniProt Accession Number of Target Protein: P35613

Published Application(s): Blocking, crystallization, in vivo, inhibition, ELISA

Published Species Reactivity: Human

Immunogen: The original antibody was generated by immunizing mice with CD147.

Specificity: 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.

Application Notes: 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(MulG2a); 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).

Antibody First Published in:

PMID:

Note on publication:

Product Form

Size: 1 mg Purified antibody in bulk size.

Purification: Protein A affinity purified

Supplied In: PBS only.

Storage Recommendation: Store at 4°C for up to 3 months. Note, this antibody is provided without added preservatives, it is therefore recommended this antibody be handled under sterile conditions. For longer storage, aliquot and store at -20°C.

Concentration: 1 mg/ml.

Important note - This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.