



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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## Anti-CD147 [5F6] Standard Size Ab03169-1.1

**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:** 200 µg Purified antibody.

**Purification:** Protein A affinity purified

**Supplied In:** PBS with 0.02% Proclin 300.

**Storage Recommendation:** Store at 4°C for up to 3 months. 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.