9853 Pacific Heights Blvd.
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10-10031-AT488: anti-ACE2, mAb (Clone: AC18F) (ATTO 488)

Clonality :	Monoclonal
Clone Name :	AC18F
Application :	FACS
Reactivity :	Human
Uniprot ID :	Q9BYF1
Alternative Name :	SARS Receptor; Angiotensin-converting Enzyme 2; ACEH; Metalloprotease MPROT15; SARS-CoV-2 Receptor, SARS, SARS-CoV, SARS-CoV-2
Isotype :	Mouse IgG1,k
Immunogen Information :	Recombinant human ACE2.

Description

Specificity : Recognizes human ACE2.
Angiotensin-converting enzyme2 (ACE2) is an ectoenzyme (carboxypeptidase) with an extracellular catalytic domain that predominantly localizes at the plasma membrane and is thereby able to hydrolyze circulating peptides. ACE2 has approximately 42% sequence identity with ACE, and its cytoplasmic and transmembrane domains show 48% homology to the protein collectrin that plays a critical role in the amino acid absorption of the kidney. ACE2 converts angiotensin I to angiotensin 1-9, a peptide of unknown function, and angiotensin II to angiotensin 1-7, a vasodilator. ACE2 is involved in the regulation of systemic blood pressure and has direct effects on cardiac functions. It is expressed predominantly in endothelial cells of the lung, gut, heart and kidney. ACE2 together with the protease TMPRSS2 acts as a functional receptor for SARS coronavirus as well as for the new highly pathogenic coronavirus, 2019-nCoV/SARS-CoV-2, which is cause for pneumonia COVID-19.

Product Info

Amount :	100 tests
Purification :	Protein G-affinity purified.
Content :	Liquid. In PBS. Concentration: 1mg/ml
Storage condition :	Short Term Storage : 4°C ; Long Term Storage 4°C ;Do not freeze. Protect from light.

Application Note

Flow Cytometry: (1:1'000)
Optimal conditions should be determined individually for each application.

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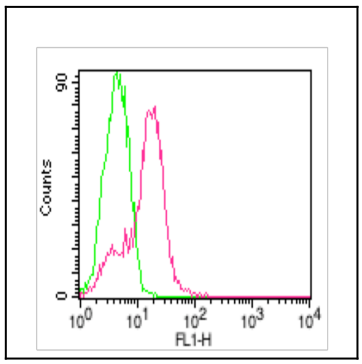

Fig.1: Cell Surface staining of ACE2 on HepG2 cell line. Red: Atto 488 conjugated human anti-ACE2 antibody (clone AC18F) (1ug/10^6 cells) was used. Green: Atto 488 conjugated Isotype control, mouse IgG1 Atto 488 (1ug/ 10^6 cells) was used as control.