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C1 Esterase Inhibitor Antibody

Rabbit Polyclonal Antibody
Catalog # ABV11807

Product Information

Application	WB
Primary Accession	P05155
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	55154

Additional Information

Gene ID	710
Positive Control	WB: h serum, h C1 Esterase Inhibitor
Application & Usage	WB: 1-4 g
Alias Symbol	SERPING1
Other Names	Plasma protease C1 inhibitor, C1 Inh, C1Inh, C1 esterase inhibitor, C1-inhibiting factor, Serpin G1
Appearance	Colorless liquid
Formulation	In PBS pH 7.2, 0.01 % BSA, 0.03 % ProClin® and 50 % glycerol
Reconstitution & Storage	-20 °C
Background Descriptions	
Precautions	C1 Esterase Inhibitor Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

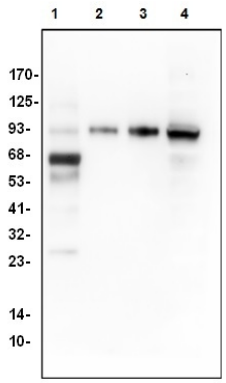
Name	SERPING1
Synonyms	C1IN, C1NH
Function	Serine protease inhibitor, which acrs as a regulator of the classical complement pathway (PubMed:10946292, PubMed:11527969, PubMed:3458172, PubMed:6416294). Forms a proteolytically inactive stoichiometric complex with the C1r or C1s proteases (PubMed:10946292, PubMed:3458172, PubMed:6416294). May also regulate blood coagulation, fibrinolysis and the generation of kinins (PubMed:8495195). Very efficient inhibitor of FXIIa. Inhibits chymotrypsin and kallikrein (PubMed:8495195).

Cellular Location Secreted

Background

A single chain glycoprotein which inhibits C1, C1r, C1s, plasma kallikrein, Factors XIa. XIIa, and plasmin. Present in plasma at 16-33 mg per 100 ml. C1 esterase inhibitor deficiency is a rare condition resulting in facial swelling and abdominal cramping. Usually the condition is hereditary, though it may also occur when the C1EI is non-functional. The C1 esterase inhibitor protein is a normal constituent of serum which functions as a serine proteinase inhibitor of the serpin family. The C1 esterase inhibitor inhibits the complement proteases C1r and C1s, as well as the proteases kallikrein, factor XIa, XIIa and plasmin of the blood clotting system. The concentration of C1 esterase inhibitor protein is reduced to 10-30% of normal in patients with angioedema secondary to C1 esterase inhibitor deficiency (85% of patients with Hereditary Angioedema (HAE)); in 15% of patients with HAE, the concentrations of the inhibitor protein is normal but function is markedly reduced.

Images



Western blot with human C1 Esterase Inhisbitor antibody in: Lane1: h serum(1 µg) Lane2-4: h C1 Esterase Inhibitor(2ng, 10ng, 50ng)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.