Datasheet for ABIN2854983

anti-Factor VII antibody

2 Images

Go to Product page

Overview

Quantity:	100 µL
Target:	Factor VII (F7)
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Factor VII antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	Recombinant protein encompassing a sequence within the center region of human Factor VII. The exact sequence is proprietary.
Isotype:	IgG
Specificity:	Upon activation of the factor VII, proteolytic cleavage of the peptide bond between Arg(152) and Ile(153) converts Factor VII (FVII) to an activated two-chain form (FVIIa). A heavy chain containing a catalytic domain and a light chain containing 2 EGF-like domains are generated. Since the immunogen sequence locates within the heavy chain, it should recognize both Factor VII and Factor VIIa.
Cross-Reactivity:	Human, Mouse
Characteristics:	Rabbit polyclonal antibody to Factor VII (coagulation factor VII (serum prothrombin conversion accelerator)) Factor VII antibody [N3C3]

Product Details

Purification:	Purified by antigen-affinity chromatography.

Target Details

Target:	Factor VII (F7)
Alternative Name:	coagulation factor VII (F7 Products)
Background:	This gene encodes coagulation factor VII which is a vitamin K-dependent factor essential for hemostasis. This factor circulates in the blood in a zymogen form, and is converted to an active form by either factor IXa, factor Xa, factor XIIa, or thrombin by minor proteolysis. Upon activation of the factor VII, a heavy chain containing a catalytic domain and a light chain containing 2 EGF-like domains are generated, and two chains are held together by a disulfide bond. In the presence of factor III and calcium ions, the activated factor then further activates the coagulation cascade by converting factor IX to factor IXa and/or factor X to factor Xa. Alternative splicing of this gene results in 2 transcripts. Defects in this gene can cause coagulopathy. Cellular Localization: Secreted
Molecular Weight:	52 kDa
Gene ID:	2155
UniProt:	P08709
Pathways:	Response to Growth Hormone Stimulus, Platelet-derived growth Factor Receptor Signaling

Application Details

Application Notes:	WB: 1:500-1:3000. IHC-P: 1:100-1:1000. Optimal dilutions/concentrations should be determined by the researcher. Not tested in other applications.
Comment:	Positive Control: NIH-3T3
Restrictions:	For Research Use only

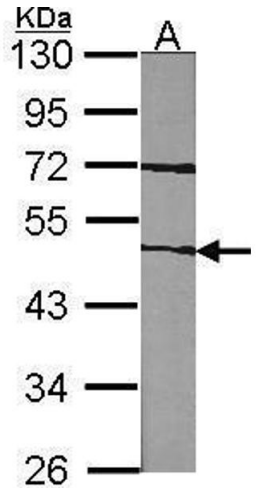
Handling

Format:	Liquid
Concentration:	2.32 mg/mL
Buffer:	1XPBS pH 7, 20 % Glycerol, 0.025 % ProClin 300

Handling

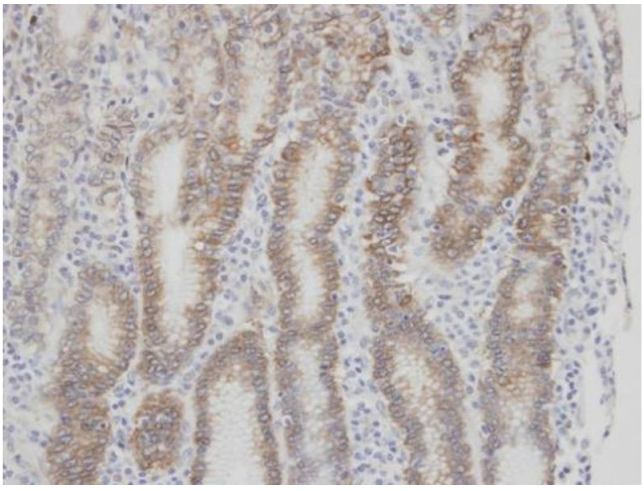
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.

Validation report #104342 for Multiplex Immunohistochemistry (mIHC)



Western Blotting

Image 1. WB Image Sample (30 ug of whole cell lysate) A:NIH-3T3 10% SDS PAGE antibody diluted at 1:1000



Immunohistochemistry

Image 2. IHC-P Image Immunohistochemical analysis of paraffin-embedded human normal gastric epithelium (gland) , using F7, antibody at 1:100 dilution.