

Product datasheet

Anti-Protein C antibody ab226998

3 Images

Overview

Product name	Anti-Protein C antibody
Description	Rabbit polyclonal to Protein C
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P, ICC/IF
Species reactivity	Reacts with: Human
Immunogen	Recombinant fragment within Human Protein C (internal sequence). The exact sequence is proprietary. Database link: P04070
Positive control	WB: HepG2 and HCT 116 whole cell lysates. ICC/IF: HeLa cells. IHC-P: Human breast cancer tissue.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.00 Preservative: 0.01% Thimerosal (merthiolate) Constituents: 1% BSA, 20% Glycerol, PBS
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab226998** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/500 - 1/3000. Predicted molecular weight: 52 kDa.

Application	Abreviews	Notes
IHC-P		1/100 - 1/1000.
ICC/IF		1/100 - 1/1000.

Target

Function

Protein C is a vitamin K-dependent serine protease that regulates blood coagulation by inactivating factors Va and VIIIa in the presence of calcium ions and phospholipids (PubMed:25618265). Exerts a protective effect on the endothelial cell barrier function (PubMed:25651845).

Tissue specificity

Plasma; synthesized in the liver.

Involvement in disease

Thrombophilia due to protein C deficiency, autosomal dominant
Thrombophilia due to protein C deficiency, autosomal recessive

Sequence similarities

Belongs to the peptidase S1 family.
Contains 2 EGF-like domains.
Contains 1 Gla (gamma-carboxy-glutamate) domain.
Contains 1 peptidase S1 domain.

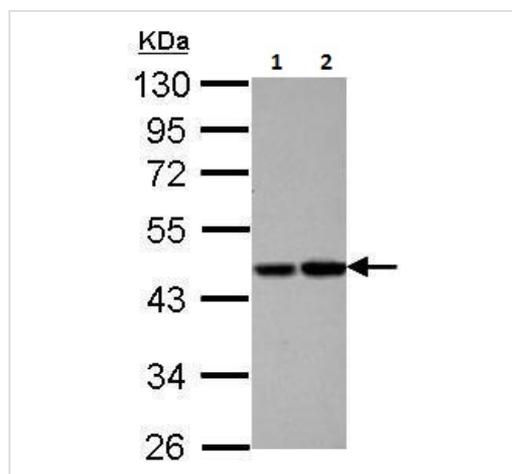
Post-translational modifications

The vitamin K-dependent, enzymatic carboxylation of some Glu residues allows the modified protein to bind calcium.
N- and O-glycosylated. Partial (70%) N-glycosylation of Asn-371 with an atypical N-X-C site produces a higher molecular weight form referred to as alpha. The lower molecular weight form, not N-glycosylated at Asn-371, is beta. O-glycosylated with core 1 or possibly core 8 glycans. The iron and 2-oxoglutarate dependent 3-hydroxylation of aspartate and asparagine is (R) stereospecific within EGF domains.
May be phosphorylated on a Ser or Thr in a region (AA 25-30) of the propeptide.

Cellular localization

Secreted. Golgi apparatus. Endoplasmic reticulum.

Images



Western blot - Anti-Protein C antibody (ab226998)

All lanes : Anti-Protein C antibody (ab226998) at 1/1000 dilution

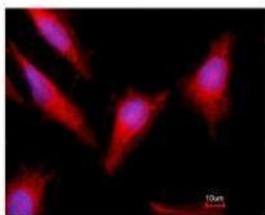
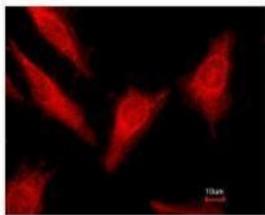
Lane 1 : HepG2 (human liver hepatocellular carcinoma cell line) whole cell lysate

Lane 2 : HCT 116 (human colorectal carcinoma cell line) whole cell lysate

Lysates/proteins at 30 µg per lane.

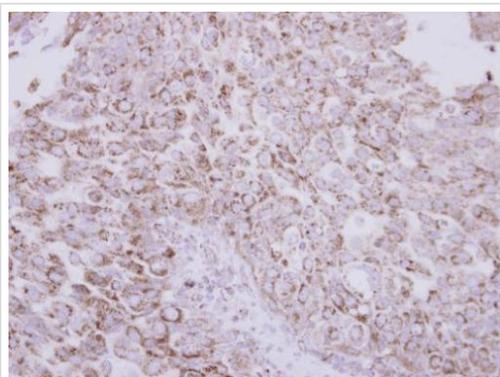
Predicted band size: 52 kDa

10% SDS PAGE gel.



Methanol-fixed HeLa (human epithelial cell line from cervix adenocarcinoma) cells stained for Protein C (red) using ab226998 at 1/500 dilution in ICC/IF.

Immunocytochemistry/ Immunofluorescence - Anti-Protein C antibody (ab226998)



Paraffin embedded human breast cancer tissue stained for Protein C using ab226998 at 1/250 dilution in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Protein C antibody (ab226998)

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