Product datasheet

Anti-Protein C antibody ab97559

Overview

Product name: Anti-Protein C antibody
Description: Rabbit polyclonal to Protein C
Host species: Rabbit
Tested applications: Suitable for: WB
Species reactivity: Reacts with: Human
Immunogen: Recombinant fragment, corresponding to a region within amino acids 145-453 of Human Protein C (NP_000303)
Positive control: 293T, A431, H1299, HeLa, MOLT4 and Raji cell lines

Properties

Form: Liquid
Storage instructions: Shipped at 4°C. Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer: pH: 7.00
Preservative: 0.01% Thimerosal (merthiolate)
 Constituents: 1.21% Tris, 0.75% Glycine, 20% Glycerol
Purity: Immunogen affinity purified
Clonality: Polyclonal
Isotype: IgG

Applications

Our Abpromise guarantee covers the use of ab97559 in the following tested applications.

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

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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

Images
Anti-Protein C antibody (ab97559) at 1/3000 dilution + MOLT4 whole cell lysate at 30 µg

Predicted band size: 52 kDa

10% SDS PAGE

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