

**FNTB Antibody (N-term)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP2414a****Specification**

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**FNTB Antibody (N-term) - Product Information**

Application	WB, IHC-P,E
Primary Accession	<a href="#">P49356</a>
Other Accession	<a href="#">Q02293</a> , <a href="#">P49355</a> , <a href="#">NP_002019</a>
Reactivity	Human
Predicted	Bovine, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	48774
Antigen Region	6-36

**FNTB Antibody (N-term) - Additional Information**

**Gene ID** 100529261;2342

**Other Names**

Protein farnesyltransferase subunit beta, FTase-beta, CAAX farnesyltransferase subunit beta, Ras proteins prenyltransferase subunit beta, FNTB

**Target/Specificity**

This FNTB antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 6-36 amino acids from the N-terminal region of human FNTB.

**Dilution**

WB~~1:1000  
IHC-P~~1:50~100  
E~~Use at an assay dependent concentration.

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

FNTB Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**FNTB Antibody (N-term) - Protein Information**

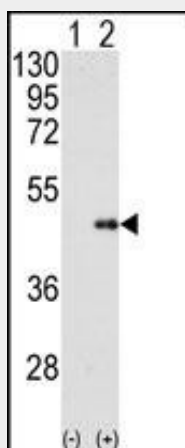
**Name** FNTB

**Function** Essential subunit of the farnesyltransferase complex. Catalyzes the transfer of a farnesyl moiety from farnesyl diphosphate to a cysteine at the fourth position from the C-terminus of several proteins having the C-terminal sequence Cys-aliphatic-aliphatic-X.

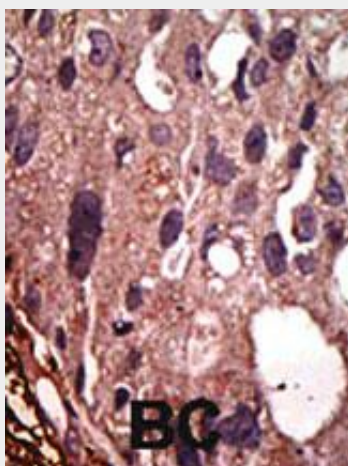
**FNTB Antibody (N-term) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**FNTB Antibody (N-term) - Images**

Western blot analysis of FNTB (arrow) using FNTB Antibody (N-term) (Cat.#AP2414a). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the FNTB gene (Lane 2) (Origene Technologies).



Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.

#### **FNTB Antibody (N-term) - Background**

Eukaryotic cells contain 3 different types of prenyltransferases that attach either a farnesyl group (15 carbons) or a geranylgeranyl group (20 carbons) in thioether linkage to C-terminal cysteine residues in a variety of proteins. These posttranslational modifications provide a mechanism for membrane localization of proteins that lack a transmembrane domain. CAAX farnesyltransferase (FTase) attaches a farnesyl group from farnesyl pyrophosphate to cysteine residues at the fourth position from the C terminus of proteins that end in the CAAX box, where C is cysteine, A is usually but not always an aliphatic amino acid, and X is typically methionine or serine. This enzyme has the ability to farnesylate peptides as short as 4 residues in length that conform to the CAAX consensus sequence. The gene for the beta subunit of CAAX farnesyltransferase (FNTB) has been pinpointed to 14q23-q24 by Southern blot hybridization and PCR analyses of panels of human/Chinese hamster somatic cell hybrid lines and by fluorescence chromosomal in situ hybridization.

#### **FNTB Antibody (N-term) - References**

- Lobell, R.B., et al., Cancer Res. 61(24):8758-8768 (2001).
- Wang, T., et al., Science 271(5252):1120-1122 (1996).
- Andres, D.A., et al., Genomics 18(1):105-112 (1993).
- Omer, C.A., et al., Biochemistry 32(19):5167-5176 (1993).