

Datasheet for ABIN1882083  
**anti-FNTA antibody (C-Term)**



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## Overview

Quantity:	400 µL
Target:	FNTA
Binding Specificity:	AA 330-360, C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This FNTA antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

## Product Details

Immunogen:	This FNTA antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 330-360 amino acids from the C-terminal region of human FNTA.
Clone:	RB4794
Isotype:	Ig Fraction
Predicted Reactivity:	B, M, Rat
Purification:	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

## Target Details

Target:	FNTA
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## Target Details

Alternative Name:	FNTA ( <a href="#">FNTA Products</a> )
Background:	FNTA, also known as 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 so-called CAAX box, where C is cysteine, A is usually but not always an aliphatic amino acid, and X is typically methionine or serine. This type of posttranslational modification provides a mechanism for membrane localization of proteins that lack a transmembrane domain. This enzyme has the remarkable property of farnesylating peptides as short as four residues in length that conform to the CAAX consensus sequence. FNTA is also a specific cytoplasmic interactor of the transforming growth factor-beta and activin type I receptors. It is likely to be a key component of the signaling pathway which involves p21ras, an important substrate for farnesyltransferase.
Molecular Weight:	44409
NCBI Accession:	<a href="#">NP_002018</a>
UniProt:	<a href="#">P49354</a>
Pathways:	<a href="#">Response to Water Deprivation, Regulation of G-Protein Coupled Receptor Protein Signaling</a>

## Application Details

Application Notes:	WB: 1:1000. IHC-P: 1:50~100
Restrictions:	For Research Use only

## Handling

Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Expiry Date:	6 months

## Publications

Product cited in:	Chiba, Sato, Misawa: "Upregulation of geranylgeranyltransferase I in bronchial smooth muscle
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of mouse experimental asthma: its inhibition by lovastatin." in: **Journal of smooth muscle research = Nihon Heikatsukin Gakkai kikanishi**, Vol. 46, Issue 1, pp. 57-64, (2010) ([PubMed](#)).

Wang, Danielson, Li, Shah, Kim, Donahoe: "The p21(RAS) farnesyltransferase alpha subunit in TGF-beta and activin signaling." in: **Science (New York, N.Y.)**, Vol. 271, Issue 5252, pp. 1120-2, (1996) ([PubMed](#)).

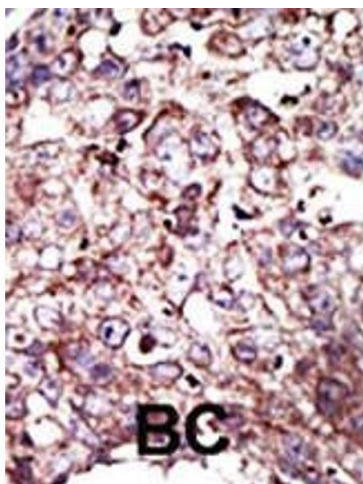
Zhang, Diehl, Kohl, Gibbs, Giros, Casey, Omer: "cDNA cloning and expression of rat and human protein geranylgeranyltransferase type-I." in: **The Journal of biological chemistry**, Vol. 269, Issue 5, pp. 3175-80, (1994) ([PubMed](#)).

Andres, Milatovich, Ozcelik, Wenzlau, Brown, Goldstein, Francke: "cDNA cloning of the two subunits of human CAAX farnesyltransferase and chromosomal mapping of FNTA and FNTB loci and related sequences." in: **Genomics**, Vol. 18, Issue 1, pp. 105-12, (1994) ([PubMed](#)).

Omer, Kral, Diehl, Prendergast, Powers, Allen, Gibbs, Kohl: "Characterization of recombinant human farnesyl-protein transferase: cloning, expression, farnesyl diphosphate binding, and functional homology with yeast prenyl-protein transferases." in: **Biochemistry**, Vol. 32, Issue 19, pp. 5167-76, (1993) ([PubMed](#)).

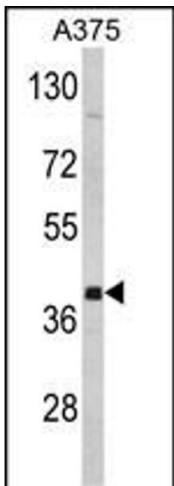
## Images

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### Immunohistochemistry (Paraffin-embedded Sections)

**Image 1.** 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.



#### Western Blotting

**Image 2.** Western blot analysis of hFNTA- (ABIN1882083 and ABIN2839267) in cell line lysates (35 µg/lane). FNTA (arrow) was detected using the purified Pab.