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FNTA Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP2420b

Specification

FNTA Antibody (C-term) - Product Information

Application	**WB, IHC-P,E**
Primary Accession	P49354
Other Accession	Q04631, Q61239, P29702
Reactivity	**Human**
Predicted	**Bovine, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Antigen Region	**330-360**

FNTA Antibody (C-term) - Additional Information

Gene ID 2339

Other Names
Protein farnesyltransferase/geranylgeranyltransferase type-1 subunit alpha, CAAX farnesyltransferase subunit alpha, FTase-alpha, Ras proteins prenyltransferase subunit alpha, Type I protein geranyl-geranyltransferase subunit alpha, GGTase-I-alpha, FNTA

Target/Specificity
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.

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

FNTA Antibody (C-term) - Protein Information

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Name FNTA

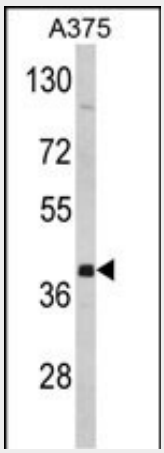
Function Essential subunit of both the farnesyltransferase and the geranylgeranyltransferase complex. Contributes to the transfer of a farnesyl or geranylgeranyl moiety from farnesyl or geranylgeranyl diphosphate to a cysteine at the fourth position from the C-terminus of several proteins having the C-terminal sequence Cys-aliphatic- aliphatic-X. May positively regulate neuromuscular junction development downstream of MUSK via its function in RAC1 prenylation and activation.

FNTA Antibody (C-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 Cytomety
- Cell Culture

FNTA Antibody (C-term) - Images



Western blot analysis of hFNTA-A345 (Cat. #AP2420b) in A375 cell line lysates (35ug/lane). FNTA (arrow) was detected using the purified Pab.

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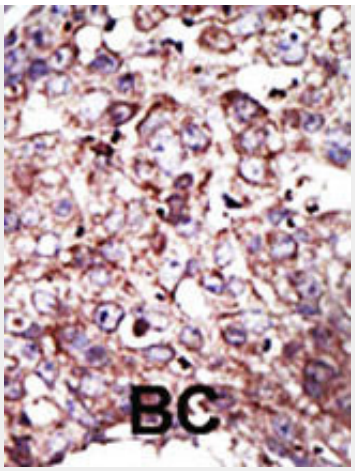

Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast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

FNTA Antibody (C-term) - 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.

FNTA Antibody (C-term) - References

Wang, T., et al., Science 271(5252):1120-1122 (1996).
Zhang, F.L., et al., J. Biol. Chem. 269(5):3175-3180 (1994).
Andres, D.A., et al., Genomics 18(1):105-112 (1993).
Omer, C.A., et al., Biochemistry 32(19):5167-5176 (1993).

FNTA Antibody (C-term) - Citations

- Upregulation of geranylgeranyltransferase I in bronchial smooth muscle of mouse experimental asthma: its inhibition by lovastatin.