10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.622.0609

RNF112 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP17554A

Specification

RNF112 Antibody (N-term) - Product Information

Application	**WB,E**
Primary Accession	O9ULX5
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit Ig**
Calculated MW	**68298**
Antigen Region	**1-30**

RNF112 Antibody (N-term) - Additional Information

Gene ID 7732

Other Names
RING finger protein 112, Brain finger protein, Zinc finger protein 179, RNF112, BFP, ZNF179

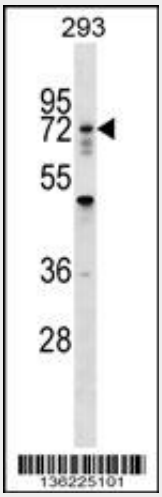
Target/Specificity
This RNF112 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human RNF112.

Dilution
WB~~1:1000

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

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
RNF112 Antibody (N-term) is for research use only and not for use in diagnostic or



RNF112 Antibody (N-term) (Cat. #AP17554a) western blot analysis in 293 cell line lysates (35ug/lane).This demonstrates the RNF112 antibody detected the RNF112 protein (arrow).

RNF112 Antibody (N-term) - Background

This gene encodes a member of the RING finger protein
family of transcription factors. The protein is primarily expressed
in brain. The gene is located within the Smith-Magenis syndrome
region on chromosome 17.

RNF112 Antibody (N-term) - References

Seki, N., et al. DNA Res. 6(5):353-356(1999)
Orimo, A., et al. Genomics 54(1):59-69(1998)
Kimura, T., et al. Am. J. Med. Genet. 69(3):320-324(1997)
Matsuda, Y., et al. Genomics 33(2):325-327(1996)

therapeutic procedures.

RNF112 Antibody (N-term) - Protein Information

Name RNF112

Synonyms BFP, ZNF179

Function
E3 ubiquitin-protein ligase that plays an important role in neuronal differentiation, including neurogenesis and gliogenesis, during brain development. During embryonic development initiates neuronal differentiation by inducing cell cycle arrest at the G0/G1 phase through up-regulation of cell-cycle regulatory proteins (PubMed:28684796). Plays a role not only in the fetal period during the development of the nervous system, but also in the adult brain, where it is involved in the maintenance of neural functions and protection of the nervous tissue cells from oxidative stress-induced damage. Exhibits GTPase and E3 ubiquitin-protein ligase activities. Regulates dendritic spine density and synaptic neurotransmission; its ability to hydrolyze GTP is involved in the maintenance of dendritic spine density (By similarity).

Cellular Location
Membrane {ECO:0000250|UniProtKB:Q96DY5}; Multi-pass membrane protein. Membrane {ECO:0000250|UniProtKB:Q96DY5}; Peripheral membrane protein {ECO:0000250|UniProtKB:Q96DY5}. Cytoplasm {ECO:0000250|UniProtKB:Q96DY5}. Nucleus {ECO:0000250|UniProtKB:Q96DY5} Nucleus, nuclear body {ECO:0000250|UniProtKB:Q96DY5}. Nucleus, nucleoplasm {ECO:0000250|UniProtKB:Q96DY5}. Endosome {ECO:0000250|UniProtKB:Q96DY5}. Cytoplasmic vesicle, secretory vesicle, synaptic vesicle {ECO:0000250|UniProtKB:Q96DY5}. Cell junction, synapse, postsynaptic density {ECO:0000250|UniProtKB:Q96DY5} Perikaryon {ECO:0000250|UniProtKB:Q96DY5}. Cell

projection, neuron projection {ECO:0000250|UniProtKB:Q96DY5}. Note=Predominantly in the nucleus, but some amounts were also found in the cytoplasm. Oxidative stress stimulates its shuttling from the cytoplasm into the nucleus Recruited to nuclear bodies via its interaction with ZBTB16. Localizes to the cell soma and neuritis and only slightly to the nucleus in the neurons of most brain areas. {ECO:0000250|UniProtKB:Q96DY5}

Tissue Location
Predominantly expressed in brain (PubMed:10574464). Decreased expression in glioma brain tumors as compared to normal brains (at protein level) (PubMed:28684796)

RNF112 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 Cytomety
- Cell Culture