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RNF112 Antibody (N-term) Blocking Peptide

Synthetic peptide
Catalog # BP17554a

Specification

RNF112 Antibody (N-term) Blocking Peptide - Product Information

Primary Accession	Q9ULX5

RNF112 Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 7732

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

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

RNF112 Antibody (N-term) Blocking Peptide - 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}. 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) Blocking Peptide - Protocols

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

- Blocking Peptides

RNF112 Antibody (N-term) Blocking Peptide - Images

RNF112 Antibody (N-term) Blocking Peptide - Background

This gene encodes a member of the RING finger proteinfamily of transcription factors. The protein is primarily expressedin brain. The gene is located within the Smith-Magenis syndromeregion on chromosome 17.

RNF112 Antibody (N-term) Blocking Peptide - 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)