

**RNF112 Antibody (N-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP17554A****Specification**

---

**RNF112 Antibody (N-term) - Product Information**

Application	WB,E
Primary Accession	<a href="#">Q9ULX5</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
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 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}. 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)

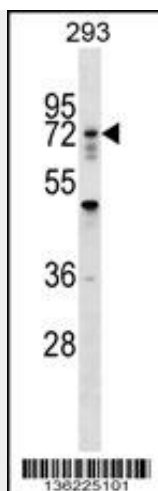
#### **RNF112 Antibody (N-term) - Protocols**

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

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

#### **RNF112 Antibody (N-term) - Images**





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)