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ZNRF1 Antibody (Center) Blocking Peptide

Synthetic peptide
Catalog # BP16755c

Specification

ZNRF1 Antibody (Center) Blocking Peptide - Product Information

Primary Accession Q8ND25

ZNRF1 Antibody (Center) Blocking Peptide - Additional Information

Gene ID 84937

Other Names
E3 ubiquitin-protein ligase ZNRF1, 632-, Nerve injury-induced gene 283 protein, Zinc/RING finger protein 1, ZNRF1, NIN283

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.

ZNRF1 Antibody (Center) Blocking Peptide - Protein Information

Name ZNRF1

Synonyms NIN283

Function
E3 ubiquitin-protein ligase that mediates the ubiquitination of AKT1 and GLUL, thereby playing a role in neuron cells differentiation. Plays a role in the establishment and maintenance of neuronal transmission and plasticity. Regulates Schwann cells differentiation by mediating

ZNRF1 Antibody (Center) Blocking Peptide - Background

In a study identifying genes in rat that are upregulatedin response to nerve damage, a gene which is highly expressed inganglia and in the central nervous system was found. The proteinencoded by the rat gene contains both a zinc finger and a RINGfinger motif and is localized in the endosome/lysosome compartment,indicating that it may be involved in ubiquitin-mediated proteinmodification. The protein encoded by this human gene is highlysimilar in sequence to that encoded by the rat gene. [provided byRefSeq].

ZNRF1 Antibody (Center) Blocking Peptide - References

Dastani, Z., et al. Eur. J. Hum. Genet. 18(3):342-347(2010)Yoshida, K., et al. Biochem. Biophys. Res. Commun. 389(3):506-511(2009)Markson, G., et al. Genome Res. 19(10):1905-1911(2009)van Wijk, S.J., et al. Mol. Syst. Biol. 5, 295 (2009) :Araki, T., et al. J. Neurosci. 23(28):9385-9394(2003)

ubiquitination of GLUL. Promotes neurodegeneration by mediating 'Lys-48'-linked polyubiquitination and subsequent degradation of AKT1 in axons: degradation of AKT1 prevents AKT1-mediated phosphorylation of GSK3B, leading to GSK3B activation and phosphorylation of DPYSL2/CRMP2 followed by destabilization of microtubule assembly in axons (Probable).

Cellular Location
Endosome. Lysosome. Membrane; Peripheral membrane protein. Cytoplasmic vesicle, secretory vesicle, synaptic vesicle membrane; Peripheral membrane protein Note=Associated with synaptic vesicle membranes in neurons

Tissue Location
Expressed primarily in the nervous system, with expression higher in developing brain relative to adult. Expressed at low levels in testis and thymus.

ZNRF1 Antibody (Center) Blocking Peptide - Protocols

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

- Blocking Peptides