

ZNRF2 Antibody

Rabbit mAb Catalog # AP91009

Product Information

Application Primary Accession Reactivity Clonality Other Names	WB, IHC <u>Q8NHG8</u> Rat, Human, Mouse Monoclonal E3 ubiquitin-protein ligase ZNRF2; ZNRF2; Zinc/RING finger protein 2; RNF202; Protein Ells2;
lsotype	Rabbit IgG
Host	Rabbit
Calculated MW	24115

Additional Information

Dilution Purification Immunogen	WB 1:500~1:2000 IHC 1:50~1:100 Affinity-chromatography A synthesized peptide derived from human 7NRE2
Description	May play a role in the establishment and maintenance of neuronal transmission and plasticity via its ubiquitin ligase activity. E3 ubiquitin ligases accept ubiquitin from an E2 ubiquitin-conjugating enzyme in the form of a theoreter and then directly transfer the ubiquitin to targeted substrates
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

Protein Information

Name	ZNRF2
Synonyms	RNF202
Function	E3 ubiquitin-protein ligase that plays a role in the establishment and maintenance of neuronal transmission and plasticity. Ubiquitinates the Na(+)/K(+) ATPase alpha-1 subunit/ATP1A1 and thereby influences its endocytosis and/or degradation (PubMed:22797923). Acts also as a positive regulator of mTORC1 activation by amino acids, which functions upstream of the V-ATPase and of Rag-GTPases (PubMed:27244671). In turn, phosphorylation by mTOR leads to its inhibition via targeting to the cytosol allowing a self-regulating feedback mechanism (PubMed:27244671).
Cellular Location	Endosome membrane; Peripheral membrane protein. Lysosome membrane; Peripheral membrane protein. Presynaptic cell membrane; Peripheral membrane protein. Cytoplasm

Images



Western blot analysis of ZNRF2 expression in HeLa cell lysate.

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