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ZNRF2 Antibody

Rabbit mAb
Catalog # AP91009

Product Information

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

Additional Information

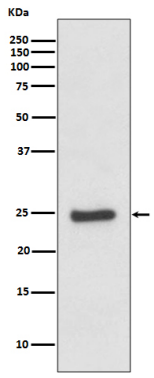
Dilution	WB 1:500~1:2000 IHC 1:50~1:100
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human ZNRF2
Description	May play a role in the establishment and maintenance of neuronal transmission and plasticity via its ubiquitin ligase activity. E3 ubiquitin ligases accept ubiquitin from an E2 ubiquitin-conjugating enzyme in the form of a thioester 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

Tissue Location	Highly expressed in the brain, with higher expression during development than in adult. Expressed also in mammary glands, testis, colon and kidney.

Images



Western blot analysis of ZNRF2 expression in HeLa cell lysate.

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