

Anti-ZNRF1 antibody



Description	Unconjugated Rabbit polyclonal to ZNRF1
Model	STJ190797
Host	Rabbit
Reactivity	Human, Mouse
Applications	ELISA, WB
Gene ID	84937
Gene Symbol	ZNRF1
Dilution range	WB 1:500-2000 ELISA 1:5000-20000
Specificity	ZNRF1 Polyclonal Antibody detects endogenous levels of protein.
Tissue Specificity	Expressed primarily in the nervous system, with expression higher in developing brain relative to adult. Expressed at low levels in testis and thymus.
Purification	ZNRF1 antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Note	For Research Use Only (RUO).
Protein Name	E3 ubiquitin-protein ligase ZNRF1 Nerve injury-induced gene 283 protein RING-type E3 ubiquitin transferase ZNRF1 Zinc/RING finger protein 1
Molecular Weight	24 kDa
Clonality	Polyclonal
Conjugation	Unconjugated

Isotype	IgG
Formulation	Liquid form in PBS containing 50% glycerol, and 0.02% sodium azide.
Concentration	1 mg/ml
Storage Instruction	Store at -20°C, and avoid repeat freeze-thaw cycles.
Database Links	HGNC:18452 OMIM:612060
Alternative Names	E3 ubiquitin-protein ligase ZNRF1 Nerve injury-induced gene 283 protein RING-type E3 ubiquitin transferase ZNRF1 Zinc/RING finger protein 1
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 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).
Sequence and Domain Family	The RING-type zinc finger domain is required for E3 ligase activity.
Cellular Localization	Endosome. Lysosome. Membrane. Peripheral membrane protein. Cytoplasmic vesicle, secretory vesicle, synaptic vesicle membrane. Associated with synaptic vesicle membranes in neurons.

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