



Rabbit Anti-RNF131 antibody

SL9290R

Product Name:	RNF131
Chinese Name:	Ring finger protein131抗体
Alias:	E3 ubiquitin protein ligase Praja2; E3 ubiquitin-protein ligase Praja-2; KIAA0438; Neurodap 1; Neurodap1; PJA 2; PJA2; PJA2_HUMAN; Praja 2; Praja 2 RING H2 motif containing; praja ring finger 2; Praja ring finger 2 E3 ubiquitin protein ligase; Praja2; RING finger protein 131; RNF 131; RNF131.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Cow,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:50-200 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	78kDa
Cellular localization:	cytoplasmicThe cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human PJA2/RNF131:251-350/708
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	PJA2, also known as E3 ubiquitin-protein ligase praja-2, RNF131 (ring finger protein 131) or Neurodap1, is a 708 amino acid protein that contains one ring-type zinc finger and exists as two alternatively spliced isoforms. Significantly conserved in chimpanzee, dog, cow, mouse, rat, chicken and zebrafish, PJA2 shares 52% identity with PJA1,

which is involved in protein ubiquitination in brain and may play a role in X-linked mental retardation. Encoded by a gene that maps to human chromosome 5q21.3, PJA2 localizes to both endoplasmic reticulum and Golgi apparatus membranes. Participating in E2-dependent, E3 ubiquitin-protein ligase activity, PJA2 binds to a variety of E2s and interacts with ubiquitin-conjugating enzymes, such as UBE2D2, in vitro.

Function:

Has E2-dependent E3 ubiquitin-protein ligase activity. Responsible for ubiquitination of cAMP-dependent protein kinase type I and type II-alpha/beta regulatory subunits and for targeting them for proteasomal degradation. Essential for PKA-mediated long-term memory processes.

Subunit:

Binds ubiquitin-conjugating enzymes (E2s). In vitro, interacts with the ubiquitin-conjugating enzyme, UBE2D2. The phosphorylated form interacts with PRKAR1A, PRKAR2A and PRKAR2B. Binds the catalytic subunits of cAMP-dependent protein kinase. [SUBCELLULAR LOCATION] Cytoplasm. Cell membrane. Endoplasmic reticulum membrane; Peripheral membrane protein. Golgi apparatus membrane; Peripheral membrane protein. Cell junction, synapse (By similarity). Cell junction, synapse, postsynaptic cell membrane, postsynaptic density (By similarity). Note=Localizes at the cytoplasmic side of endoplasmic reticulum and Golgi apparatus. Expressed in the postsynaptic density region of synapses (By similarity). Co-localizes with PRKAR2A and PRKAR2B in the cytoplasm and the cell membrane.

Similarity:

Contains 1 RING-type zinc finger.

SWISS:

O43164

Gene ID:

9867

Database links:

[Entrez Gene: 9867](#)Human

[SwissProt: O43164](#)Human

[Unigene: 483036](#)Human

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.