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# ZNRF2 Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP20753a

## Product Information

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| **Application** | WB, E |
| **Primary Accession** | Q8NHG8 |
| **Reactivity** | Human, Mouse |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Isotype** | Rabbit IgG |
| **Clone Names** | RB49907 |
| **Calculated MW** | 24115 |

## Additional Information

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| **Gene ID** | 223082 |
| **Other Names** | E3 ubiquitin-protein ligase ZNRF2, 632-, Protein Ells2, RING finger protein 202, Zinc/RING finger protein 2, ZNRF2, RNF202 |
| **Target/Specificity** | This ZNRF2 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 2-36 amino acids from the N-terminal region of human ZNRF2. |
| **Dilution** | WB~~1:1000 E~~Use at an assay dependent concentration. |
| **Format** | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification. |
| **Storage** | Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles. |
| **Precautions** | ZNRF2 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures. |

## Protein Information

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| **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 |

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| | 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. |

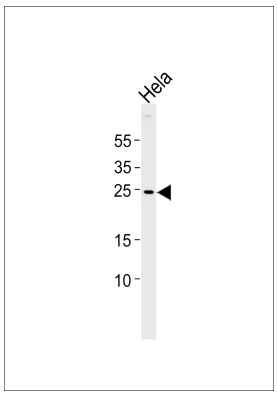
## Background

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.

## References


Araki T.,et al.J. Neurosci. 23:9385-9394(2003).
Guo J.H.,et al.Submitted (JUL-2002) to the EMBL/GenBank/DDBJ databases.
Olsen J.V.,et al.Cell 127:635-648(2006).
Plans V.,et al.J. Cell. Biochem. 97:572-582(2006).
Cantin G.T.,et al.J. Proteome Res. 7:1346-1351(2008).


## Images




Western blot analysis of lysate from Hela cell line, using ZNRF2 Antibody (N-term)(Cat. #AP20753a). AP20753a was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysate at 35ug.