

# Anti-ZNRF2 Antibody

Rabbit Polyclonal antibody

Catalog # ABV11873

## Product Information

<b>Application</b>	WB, IHC, IF
<b>Primary Accession</b>	<a href="#">Q8NHG8</a>
<b>Reactivity</b>	Human, Mouse, Rat
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	Rabbit IgG
<b>Calculated MW</b>	24115

## Additional Information

<b>Gene ID</b>	223082
<b>Positive Control</b>	WB: HEK293T, A549, RAW264.7, H9C2 cel lysate; IHC: human brain tissue; IFC: A549 cells
<b>Application &amp; Usage</b>	WB; 1:500 – 1:2000, IHC; 1:50 – 1:200, IF/IC; 1:50 – 1:100
<b>Alias Symbol</b>	ZNRF2
<b>Other Names</b>	RNF202, E3 ubiquitin-protein ligase ZNRF2, Protein Ells2, RING finger protein 202, Zinc/RING finger protein 2
<b>Formulation</b>	In 0.42% Potassium phosphate; 0.87% Sodium chloride; pH 7.3; 30% glycerol and 0.01% sodium azide
<b>Reconstitution &amp; Storage</b>	12 months under -20°C
<b>Background Descriptions</b>	
<b>Precautions</b>	Anti-ZNRF2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

<b>Name</b>	ZNRF2
<b>Synonyms</b>	RNF202
<b>Function</b>	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: <a href="#">22797923</a> ). Acts also as a positive regulator of mTORC1 activation by amino acids, which functions upstream of the V-ATPase and of Rag-GTPases (PubMed: <a href="#">27244671</a> ). 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.

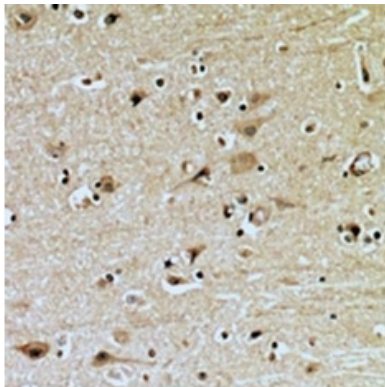
## Background

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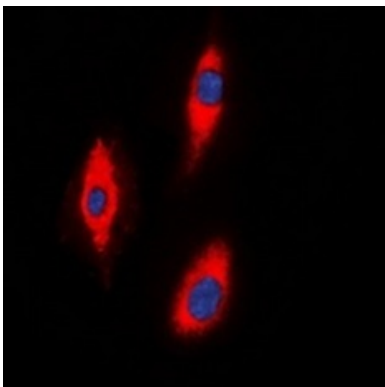
E3 ubiquitin-protein ligase ZNRF2 protein plays a role in the establishment and maintenance of neuronal transmission and plasticity via its ubiquitin ligase activity. E3 ubiquitin ligases accept ubiquitin from an E2 ubiquitin-conjugating enzyme in the form of a thioester and then directly transfer the ubiquitin to targeted substrates.

## Images

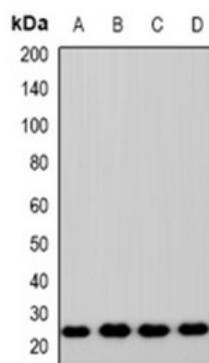
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Immunohistochemical analysis of ZNRF2 staining in human brain formalin fixed paraffin embedded tissue section.



Immunofluorescent analysis of ZNRF2 staining in A549 cells.



Western blot analysis of ZNRF2 expression in HEK293T(A), A549(B), RAW264.7(C), H9C2(D) whole cell lysates.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.