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RNF170 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP59201

Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	Q96K19
Reactivity	Rat, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	29815
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human RNF170
Epitope Specificity	101-200/258
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Endoplasmic reticulum membrane; Multi-pass membrane protein (By similarity).
SIMILARITY	Contains 1 RING-type zinc finger.
SUBUNIT	Constitutively associated with the ERLIN1/ERLIN 2 complex. Interacts with activated ITPR1.
DISEASE	Defects in RNF170 are the cause of ataxia, sensory, type 1, autosomal dominant (SNAX1) [MIM:608984]. A rare disease characterized by progressive ataxia caused by degeneration of the posterior columns of the spinal cord. Affected individuals have a reduced ability to feel pain, temperature and vibration, particularly in the hands and feet. Their most prominent feature is an ataxic gait resulting from a severe loss of proprioception. Thus, patients rely on visual cues for maintaining proper body posture, such that they are unable to remain upright if their eyes are closed (Romberg sign).
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The ring finger is a specialized type of zinc finger of 40 to 60 residues that binds two atoms of zinc and mediates protein-protein interactions. There are five known isoforms of RNF170.

Additional Information

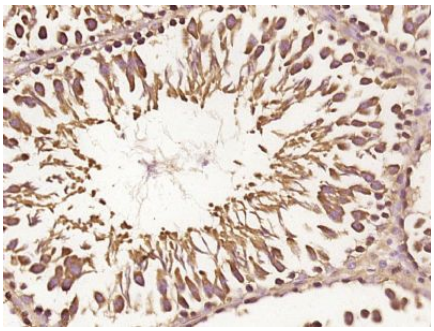
Gene ID	81790
Other Names	E3 ubiquitin-protein ligase RNF170, 2.3.2.27, Putative LAG1-interacting protein, RING finger protein 170, RING-type E3 ubiquitin transferase RNF170, RNF170
Target/Specificity	Expressed in the spinal chord.

Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:50-200,ELISA=1:5000-10000
Format	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. 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.

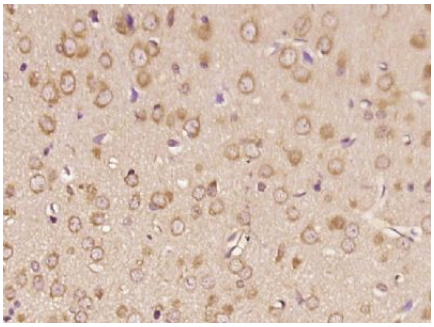
Protein Information

Name	RNF170
Function	E3 ubiquitin-protein ligase that plays an essential role in stimulus-induced inositol 1,4,5-trisphosphate receptor type 1 (ITPR1) ubiquitination and degradation via the endoplasmic reticulum-associated degradation (ERAD) pathway. Also involved in ITPR1 turnover in resting cells. Selectively inhibits the TLR3-triggered innate immune response by promoting the 'Lys-48'-linked polyubiquitination and degradation of TLR3 (PubMed:31076723).
Cellular Location	Endoplasmic reticulum membrane; Multi-pass membrane protein
Tissue Location	Expressed in the spinal cord.

Images



Paraformaldehyde-fixed, paraffin embedded (rat testis tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (RNF170) Polyclonal Antibody, Unconjugated (AP59201) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Paraformaldehyde-fixed, paraffin embedded (rat brain tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (RNF170) Polyclonal Antibody, Unconjugated (AP59201) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.