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RNF19A Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP14232c

Product Information

Application	WB, IHC-P, E
Primary Accession	Q9NV58
Other Accession	Q2VJ60, P50636, NP_056250.3, NP_904355.1
Reactivity	Human
Predicted	Mouse, Pig, Rat, Bovine, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB34244
Calculated MW	90696
Antigen Region	384-413

Additional Information

Gene ID	25897
Other Names	E3 ubiquitin-protein ligase RNF19A, 632-, Double ring-finger protein, Dorfin, RING finger protein 19A, p38, RNF19A, RNF19
Target/Specificity	This RNF19A antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 384-413 amino acids from the Central region of human RNF19A.
Dilution	WB~~1:1000 IHC-P~~1:100~500 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	RNF19A Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	RNF19A
Synonyms	RNF19

Function	E3 ubiquitin-protein ligase which accepts ubiquitin from E2 ubiquitin-conjugating enzymes UBE2L3 and UBE2L6 in the form of a thioester and then directly transfers the ubiquitin to targeted substrates, such as SNCAIP or CASR. Specifically ubiquitinates pathogenic SOD1 variants, which leads to their proteasomal degradation and to neuronal protection.
Cellular Location	Membrane; Multi-pass membrane protein. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Note=Present in the hyaline inclusion bodies specifically found in motor neurons from amyotrophic lateral sclerosis patients. Present in the Lewy bodies specifically found in neurons from Parkinson disease patients
Tissue Location	Widely expressed, with highest levels in heart. Ubiquitously expressed in the central nervous system

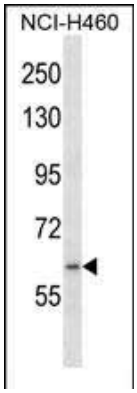
Background

The protein encoded this gene contains two RING-finger motifs and an IBR (in between RING fingers) motif. This protein is an E3 ubiquintin ligase that is localized in Lewy bodies (LBs), a characteristic neuronal inclusion in Parkinson's disease (PD) brains. This protein interacts with UBE2L3/UBCH7 and UBE2E2/UBCH8, but not other ubiquitin-conjugating enzymes. This protein is found to bind and ubiquitylate synphilin 1 (SNCAIP), which is a interacting protein of alpha synuclein in neurons, and a major component of LB. Alternatively spliced transcript variants encoding the same protein have been reported.

References

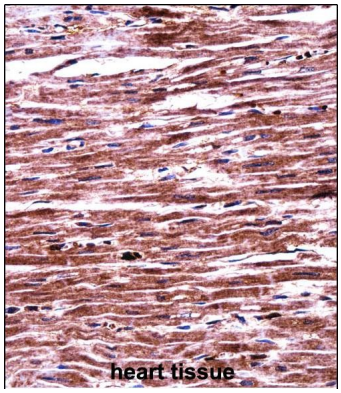
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Images



RNF19A Antibody (Center) (Cat. #AP14232c) western blot analysis in NCI-H460 cell line lysates (35ug/lane).This demonstrates the RNF19A antibody detected the RNF19A protein (arrow).

RNF19A Antibody (Center) (AP14232c)immunohistochemistry analysis in formalin fixed and paraffin embedded human heart tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of RNF19A Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.



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