

DORFIN Rabbit pAb

Catalog # AP98951

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	Q9NV58
Other Accession	Q9NV58
Predicted	Rat, Pig, Human, Mouse, Dog, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	90696
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human DORFIN/RNF19
Epitope Specificity	621-720/838
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the RBR family. RNF19 subfamily. Contains 1 IBR-type zinc finger. Contains 2 RING-type zinc fingers.
Post-translational modifications	Phosphorylated upon DNA damage, probably by ATM or ATR.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Dorfin is a multi-pass membrane, RING-IBR type, E3 ubiquitin-protein ligase. It is widely expressed with highest levels found in heart and ubiquitous expression throughout the central nervous system. Dorfin functions by accepting ubiquitin in the form of a thioester from UBC7 and UBC8 and then transferring it to the targeted substrates. Dorfin is responsible for ubiquitylating synphilin-1, CaSR and mutant variants of SOD-1, a protein at fault for familial ALS (amyotrophic lateral sclerosis). Dorfin physically interacts with VCP (Valosin-containing protein) via its C-terminus. Together these two proteins are associated with the formation of ubiquitylated inclusions (UBIs) that characterize many neurodegenerative disorders, such as Parkinson's disease and ALS. This association with UBIs suggests that Dorfin plays an important role in the disease process.

Additional Information

Gene ID	25897
Other Names	RNF19; Dorfin; UIP117; Ubce7ip2; XYbp; RFN19; RN19A_HUMAN; RNF19A; Double ring-finger protein (Dorfin); RING finger protein 19A; p38; 2.3.2.31; RN19A_MOUSE; Gametogenesis-expressed protein GEG-154; UBCM4-interacting protein 117 (UIP117); XY body protein (XYbp); Geg-154; RN19A_PIG; ring finger protein 19A, RBR E3 ubiquitin protein ligase; ring finger protein 19; ring finger protein 19A, E3 ubiquitin protein ligase

Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000
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	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

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