

For Research Use Only

AFG3L2 Monoclonal antibody

Catalog Number: 68517-1-Ig



Basic Information

Catalog Number: 68517-1-Ig	GenBank Accession Number: BC065016	Purification Method: Protein A purification
Size: 150ul , Concentration: 1000 ug/ml by Nanodrop;	GeneID (NCBI): 10939	CloneNo.: 1C12F3
Source: Mouse	UNIPROT ID: Q9Y4W6	Recommended Dilutions: WB 1:1000-1:8000
Isotype: IgG2a	Full Name: AFG3 ATPase family gene 3-like 2 (yeast)	
Immunogen Catalog Number: AG7180	Calculated MW: 88 kDa	
	Observed MW: 80 kDa	

Applications

Tested Applications: WB, FC (Intra), ELISA	Positive Controls:
Species Specificity: human, mouse, rat, pig, rabbit	WB : HeLa cells, LNCaP cells, HepG2 cells, Jurkat cells, K-562 cells, pig heart tissue, rabbit heart tissue, rat heart tissue, mouse heart tissue

Background Information

AFG3L2 is the catalytic subunit of the m-AAA protease, an ATP-dependent proteolytic complex of the mitochondrial inner membrane that degrades misfolded proteins and regulates ribosome assembly(PMID:17101804). Human AFG3L2 is an 80-kDa protein encoded by a 17-exon gene and highly and selectively expressed in human cerebellar Purkinje cells(PMID:20208537) and it can exist as a truncated 65 kDa protein(PMID:18337413). Defects in AFG3L2 are the cause of spinocerebellar ataxia type 28 (SCA28) and spastic ataxia autosomal recessive type 5 (SPAX5).

Storage

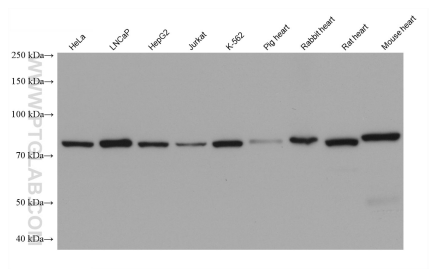
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 68517-1-Ig (AFG3L2 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.

1x10⁶ HeLa cells were intracellularly stained with 0.25 ug AFG3L2 Monoclonal antibody (68517-1-Ig, Clone:1C12F3) and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1)(red), or 0.25 ug Mouse IgG2a isotype control Mouse McAb (66360-2-Ig, Clone: 11A1B2) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).