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## PRSS15/LONP1 (D7L8M) Rabbit mAb



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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W	Reactivity: H	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 106	<b>Source/Isotype:</b> Rabbit IgG	UniProt ID: #P36776	Entrez-Gene Id: 9361		
Product Usage Information	2	<b>Application</b> Western Blotting			<b>Dilution</b> 1:1000			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.						
Specificity/Ser	sitivity	PRSS15/LONP1 (D7L8M) Rabbit mAb recognizes endogenous levels of total PRSS15/LONP1 protein.						
<b>Source / Purification</b> Monoclonal antibody is produced by immunizing animals with a synthetic peptide residues surrounding Phe920 of human PRSS15/LONP1 protein.					prresponding to			
Background		PRSS15/LONP1 is an ATP-dependent serine protease that selectively degrades misfolded, misassembled, or damaged proteins in mitochondrial matrix. PRSS15/LONP1 is induced by hypoxic, proteotoxic, and endoplasmic reticulum (ER) stress to support cell survival (1). It has been reported that PRSS15/LONP1 inducibility is decreased during aging and chronic stress (2-4). PRSS15/LONP1 is found to be substantially elevated in lymphoma cells compared to resting or activated B cells, and knock- down or inhibition of PRSS15/LONP1 induces apoptosis in lymphoma cells (5). Mutation in PRSS15/LONP1 is associated with CODAS syndrome, a multi-system developmental disorder characterized by cerebral, ocular, dental, auricular, and skeletal anomalies (6).						
Background R	eferences	1. Pinti, M. et al. (2015 2. Bota, D.A. et al. (200 3. Lee, C.K. et al. (1999 4. Ngo, J.K. et al. (201 5. Gibellini, L. et al. (20 6. Strauss, K.A. et al. (20	02) FEBS Lett 532, 1 9) Science 285, 1390 1) J Gerontol A Biol . 015) Oncotarget 6, 2	03-6. )-3. <i>Sci Med Sci</i> 66, 1178-85. 25466-83.				
Species Reacti	vity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).						
Western Blot E	Buffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.						
Applications K	ey	W: Western Blotting						
Cross-Reactivi	ty Key	H: Human						
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