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

Applications: W, IP	Reactivity: H	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 28	<b>Source/Isotype:</b> Rabbit	<b>UniProt ID:</b> #Q16740	Entrez-Gene Id: 8192	
Product Usage Information	2	<b>Application</b> Western Blotting Immunoprecipitation			<b>Dilution</b> 1:1000 1:50		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at – 20°C. <i>Do not aliquot the antibody.</i>					
Specificity/Ser	nsitivity	CLPP Antibody recognizes endogenous levels of total CLPP protein.					
Source / Purifi	cation	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro263 of human CLPP protein. Antibodies are purified by protein A and peptide affinity chromatography.					
Background		The proteolytic component, Tetradecameric Peptidase (CLpP), is a hexamer in one of four ATP- dependent mitochondrial proteases (CLpXP). CLPP, one of the proteases, is an endopeptidase that is highly conserved among prokaryotes and eukaryotes, both at the level of amino acid sequence and quaternary structure. The active unit of CLPP is a barrel-shaped tetradecamer, Proteolysis of larger substrates is initiated by caseinolytic peptidase X (CLPX) which unfolds specific protein substrates. The unfolded polypeptide chain translocates into the CLPP proteolytic chamber for protein degradation within the interior chamber of mitochondria (1). Recessive mutations in <i>CLPP</i> cause Perrault Syndrome, a heterogeneous condition characterized by sensorineural hearing loss and ovarian failure (2).					
		PINK1 is rapidly degra depolarization, PINK1	ded by mitochondr accumulates on the ne mitochondrial pi	sively inherited Parkins ial proteases and the pr e mitochondrial surface oteases MPP, PARL, m-A	oteasome. Upon m , recruits Parkin froi	itochondrial m the cytosol, and	
Background R	eferences	1. Yu, A.Y. and Houry, W.A. (2007) <i>FEBS Lett</i> 581, 3749-57. 2. Jenkinson, E.M. et al. (2013) <i>Am J Hum Genet</i> 92, 605-13. 3. Greene, A.W. et al. (2012) <i>EMBO Rep</i> 13, 378-85.					
Species Reacti	ivity	Species reactivity is de	termined by testing	g in at least one approve	ed application (e.g.,	western blot).	
Western Blot I	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 IP: Immunoprecipitation					
Cross-Reactivi	ty Key	H: Human					
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