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PRSS15/LONP1 (D7L8M) Rabbit mAb



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Applications: Reactivity: Sensitivity: MW (kDa): Source/Isotype: **UniProt ID:** Entrez-Gene Id: WB Н Endogenous 106 Rabbit IgG #P36776 9361 **Product Usage** Application Dilution Information Western Blotting 1:1000 Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than **Storage** 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody. Specificity / Sensitivity PRSS15/LONP1 (D7L8M) Rabbit mAb recognizes endogenous levels of total PRSS15/LONP1 protein. Source / Purification Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Phe920 of human PRSS15/LONP1 protein. PRSS15/LONP1 is an ATP-dependent serine protease that selectively degrades misfolded, misassembled, **Background** 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). 1. Pinti, M. et al. (2015) Cell Mol Life Sci, 1-18. **Background References** 2. Bota, D.A. et al. (2002) FEBS Lett 532, 103-6. 3. Lee, C.K. et al. (1999) Science 285, 1390-3. 4. Ngo, J.K. et al. (2011) J Gerontol A Biol Sci Med Sci 66, 1178-85. 5. Gibellini, L. et al. (2015) Oncotarget 6, 25466-83. 6. Strauss, K.A. et al. (2015) Am J Hum Genet 96, 121-35.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot 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 Key

WB: Western Blotting

Cross-Reactivity Key

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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