3603 Store at -200

Cyclophilin B (D1V5J) Rabbit mAb



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

Applications: WB, W-S	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 20	Source/Isotype: Rabbit IgG	UniProt ID: #P23284	Entrez-Gene Id: 5479	
Product Usage Information	Ар	Application			Dilution		
	We	estern Blotting			1:1000		
	Sin	nple Western™			1:10 - 1:50		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.					
Specificity / Sens		Cyclophilin B (D1V5J) Rabbit mAb recognizes endogenous levels of total cyclophilin B protein. This antibody does not cross-react with cyclophilin A protein.					
Source / Purificat	rce / Purification Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human cyclophilin B protein.					esponding to	
Background	tran proc the path to it	Cyclophilin B (CyPB) is an ER-localized chaperone protein belonging to the family of peptidyl-prolyl cistrans isomerases (PPlases) (1,2). Research studies have demonstrated that CyPB associates with type I procollagen and is involved in its sorting and transport through the secretory compartment (3). Mutations in the gene encoding CyPB, <i>PPIB</i> , lead to aberrant biosynthesis of type I procollagen, which underlies the pathogenesis of osteogenesis imperfecta (OI), a disorder characterized by bone fragility (4-7). In additional to its role in OI, research studies demonstrate that CyPB overexpression supports the expression of multiple oncogenic drivers of glioblastoma multiforme (8).					
Background Refe	2. H 3. S 4. P 5. vi 6. C 7. C	 Price, E.R. et al. (1991) Proc Natl Acad Sci U S A 88, 1903-7. Hasel, K.W. et al. (1991) Mol Cell Biol 11, 3484-91. Smith, T. et al. (1995) J Biol Chem 270, 18323-8. Pyott, S.M. et al. (2011) Hum Mol Genet 20, 1595-609. van Dijk, F.S. et al. (2009) Am J Hum Genet 85, 521-7. Cabral, W.A. et al. (2014) PLoS Genet 10, e1004465. Choi, J.W. et al. (2009) PLoS Genet 5, e1000750. Choi, J.W. et al. (2014) Cancer Res 74, 484-96. 					

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 W-S: Simple Western™

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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Cyclophilin B (D1V5]) Rabbit mAb (#43603) Datasheet Without Images Cell Signaling Technology

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