

#2175 Store at -20°C

Cyclophilin A Antibody



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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:
WB	H M R Mk	Endogenous	18	Rabbit	#P62937	5478

Product Usage Information	Application Western Blotting	Dilution 1:1000
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C. Do not aliquot the antibody.	
Specificity / Sensitivity	Cyclophilin A Antibody detects endogenous levels of total Cyclophilin A protein.	
Species predicted to react based on 100% sequence homology:	Bovine, Dog	
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of Cyclophilin A. Antibodies are purified by protein A and peptide affinity chromatography.	
Background	Cyclophilins are a highly conserved family of peptidylprolyl <i>cis-trans</i> -isomerases (PPIA) that are targets of the immunosuppressant drug cyclosporin A (CsA) (1,2). The complex of cyclophilin and CsA can bind to and inhibit calcineurin which leads to inhibition of the transcription factor NFAT and decreased production of cytokines (3,4). As isomerases, cyclophilins have been proposed to aid in protein folding. Cyclophilin A can bind to the p55 Gag protein of HIV and appears necessary for HIV infection (5,6). There is also some evidence that cyclophilins have nuclease activity and play a role in apoptosis (7).	
Background References	1. Takahashi, N. et al. (1989) <i>Nature</i> 337, 473-475. 2. Wang, P. and Heitman, J. (2005) <i>Genome Biol.</i> 6, 226. 3. Jain, J. et al. (1993) <i>Nature</i> 365, 352-355. 4. McCaffrey, P.G. et al. (1993) <i>J. Biol. Chem.</i> 268, 3747-3752. 5. Thali, M. et al. (1994) <i>Nature</i> 372, 363-365. 6. Streblow, D.N. et al. (1998) <i>Virology</i> 245, 197-202. 7. Montague, J.W. et al. (1994) <i>J. Biol. Chem.</i> 269, 18877-18880.	

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 nonfat dry milk, 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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