Cyclophilin A Antibody

For Research Use Only. Not For Use In Diagnostic Procedures.

Applications | Species Cross-Reactivity* | Molecular Wt. | Source
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W Endogenous | H, M, R, Mk, (B, Dg) | 18 kDa | Rabbit **

Background: Cyclophilins are a highly conserved family of peptidylprolyl cis-trans-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 can have nuclease activity and play a role in apoptosis (7).

Specificity/Sensitivity: Cyclophilin A Antibody detects endogenous levels of total Cyclophilin A protein.

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 References:

Entrez-Gene ID #5478
Swiss-Prot Acc. #P62937

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.

*Species cross-reactivity is determined by western blot.

**Anti-rabbit secondary antibodies must be used to detect this antibody.

Recommended Antibody Dilutions:
Western blotting 1:1000

For application specific protocols please see the web page for this product at www.cellsignal.com.

Please visit www.cellsignal.com for a complete listing of recommended companion products.

IMPORTANT: For western blots, incubate membrane with diluted antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween-20 at 4°C with gentle shaking, overnight.