

Cyclophilin A (D2Y4M) Rabbit mAb

Orders: 877-616-CELL (2355)
orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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Applications: W	Reactivity: M	Sensitivity: Endogenous	MW (kDa): 18	Source/Isotype: Rabbit IgG	UniProt ID: #P62937	Entrez-Gene Id: 5478
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Product Usage Information**Application**

Western Blotting

Dilution

1:1000

Storage

Supplied in 10mM sodium HEPES (pH 7.5), 150mM NaCl, 100 µg/ml, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

Cyclophilin A (D2Y4M) Rabbit mAb recognizes endogenous levels of total cyclophilin A protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly18 of mouse cyclophilin A protein.

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 have nuclease activity and play a role in apoptosis (7).

Background References

1. Takahashi, N. et al. (1989) *Nature* 337, 473-475.
2. Wang, P. and Heitman, J. (2005) *Genome Biol.* 6, 226.
3. Jain, J. et al. (1993) *Nature* 365, 352-355.
4. McCaffrey, P.G. et al. (1993) *J. Biol. Chem.* 268, 3747-3752.
5. Thali, M. et al. (1994) *Nature* 372, 363-365.
6. Streblow, D.N. et al. (1998) *Virology* 245, 197-202.
7. Montague, J.W. et al. (1994) *J. Biol. Chem.* 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 BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting

Cross-Reactivity Key

M: Mouse

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