



**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

# PP5 Antibody

Store at -20C  
#2289

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

<b>Applications:</b> W	<b>Reactivity:</b> H M R Mk	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 58	<b>Source/Isotype:</b> Rabbit	<b>UniProt ID:</b> #P53041	<b>Entrez-Gene Id:</b> 5536
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## 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

PP5 Antibody detects endogenous levels of total PP5 protein.

## Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to the amino-terminal sequence of human PP5. Antibodies are purified by protein A and peptide affinity chromatography.

## Background

Protein phosphatase 5 (PP5) is a member of the serine/threonine phosphatase family that also includes PP1, PP2A and PP2B. PP5 uniquely contains an amino-terminal regulatory domain with three tetratricopeptide repeat (TPR) motifs and a carboxy-terminal catalytic domain (1-3). Through the TPR domain, PP5 interacts with a number of proteins and has been reported to be involved in diverse signal transduction pathways, including glucocorticoid receptor signaling, p53-mediated growth arrest, oxidative stress-mediated apoptosis and the response to ionizing radiation-induced DNA damage (4-8).

## Background References

- Chen, M.X. and Cohen, P.T. (1997) *FEBS Lett.* 400, 136-140.
- Andreeva, A.V. and Kutuzov, M.A. (1999) *Cell. Signal.* 11, 555-562.
- Chinkers, M. *Trends Endocrinol. Metab.* 12, 28-32.
- Zuo, Z. et al. (1998) *J. Biol. Chem.* 273, 12250-12258.
- Morita, K. et al. (2001) *EMBO J.* 20, 6028-6036.
- Silverstein, A.M. et al. (1997) *J. Biol. Chem.* 272, 16224-16230.
- Ali, A. et al. (2004) *Genes Dev.* 18, 249-254.
- Wechsler, T. et al. (2004) *Proc. Natl. Acad. Sci. USA* 101, 1247-1252.

## 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

**H:** Human **M:** Mouse **R:** Rat **Mk:** Monkey

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