

**PTPN18 (D7B9) Rabbit mAb**

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<b>Applications:</b> W, IP	<b>Reactivity:</b> H	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 48	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #Q99952	<b>Entrez-Gene Id:</b> 26469
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**Product Usage Information****Application**

Western Blotting  
Immunoprecipitation

**Dilution**

1:1000  
1:200

**Storage**

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

**Specificity/Sensitivity**

PTPN18 (D7B9) Rabbit mAb recognizes endogenous levels of total PTPN18 protein.

**Source / Purification**

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala401 of human PTPN18 protein.

**Background**

PTPN18 is a member of the PEST family of nonreceptor protein tyrosine phosphatases, a group that also includes PTP-PEST and PEP (1-3). Members of this protein family contain an N-terminal catalytic domain and a noncatalytic C-terminal domain with a PEST motif that mediates protein-protein interactions (4). PTPN18 was first identified in hematopoietic stem cells (HSCs), where it was suggested to play a role in HSC differentiation (1-3). Subsequently, PTPN18 was shown to bind to c-Src kinase, forming a protein complex that functions to inhibit Src-family kinase signaling (4,5). More recently, PTPN18 expression has been shown to correlate with HER2 receptor expression in breast cancer cell lines (6,7), where it has been suggested to repress HER2 signaling (7).

**Background References**

1. Cheng, J. et al. (1996) *Blood* 88, 1156-67.
2. Huang, K. et al. (1996) *Oncogene* 13, 1567-73.
3. Dosil, M. et al. (1996) *Blood* 88, 4510-25.
4. Wang, B. et al. (2001) *Mol Cell Biol* 21, 1077-88.
5. Rubbi, L. et al. (2011) *Sci Signal* 4, ra18.
6. Lucci, M.A. et al. (2010) *Cell Oncol* 32, 361-72.
7. Gensler, M. et al. (2004) *J Biol Chem* 279, 12110-6.

**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 **IP:** Immunoprecipitation

**Cross-Reactivity Key**

**H:** Human

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