

#4500 Store at -20°C

Phospho-CYLD (Ser418) Antibody


Cell Signaling
TECHNOLOGY®

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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	Endogenous	108	Rabbit	#Q9NQC7	1540

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

Phospho-CYLD (Ser418) Antibody detects endogenous levels of CYLD protein only when phosphorylated on Ser418.

Species predicted to react based on 100% sequence homology:

Mouse, Rat

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser418 of human CYLD protein. Antibodies are purified by protein A and peptide affinity chromatography.

Background

CYLD is a cytoplasmic deubiquitinating enzyme encoded by a tumor suppressor gene altered in individuals diagnosed with cylindromatosis, a genetic condition characterized by benign tumors of skin appendages (1,2). Functional CYLD deubiquitinase regulates inflammation and cell proliferation by down regulating NF-κB signaling through removal of ubiquitin chains from several NF-κB pathway proteins (3,4). CYLD is a negative regulator of proximal events in Wnt/β-catenin signaling and is a critical regulator of natural killer T cell development (5,6). The transcription factor Snail can inhibit CYLD expression, resulting in melanoma cell proliferation (7).

CYLD can be phosphorylated at Ser418 by the noncanonical IKK family member IKKε. Phosphorylation at Ser418 decreases CYLD deubiquitinase activity and is important for IKKε-driven transformation (8).

Background References

- Biggs, P.J. et al. (1995) *Nat Genet* 11, 441-3.
- Sun, S.C. (2010) *Cell Death Differ* 17, 25-34.
- Regamey, A. et al. (2003) *J Exp Med* 198, 1959-64.
- Glittenberg, M. and Ligoxygakis, P. (2007) *Fly (Austin)* 1, 330-2.
- Tauriello, D.V. et al. (2010) *Mol Cell* 37, 607-19.
- Lee, A.J. et al. (2010) *EMBO J* 29, 1600-12.
- Massoumi, R. et al. (2009) *J Exp Med* 206, 221-32.
- Hutti, J.E. et al. (2009) *Mol Cell* 34, 461-72.

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

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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