

#5754 Store at -20C

RCHY1 Antibody

**Cell Signaling**
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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, IP	H M	Endogenous	29	Rabbit	#Q96PM5	25898

Product Usage Information**Application**Western Blotting
Immunoprecipitation**Dilution**1:1000
1:50**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

RCHY1 Antibody detects endogenous levels of total RCHY1 protein. This antibody does not detect RCHY1 dimers.

Species predicted to react based on 100% sequence homology:

Monkey

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human RCHY1 protein isoform1. Antibodies are purified by protein A and peptide affinity chromatography.

Background

RING finger and **CHY1** zinc finger domain-containing protein 1 (**RCHY1**) is a newly identified RING-H2-type protein-ubiquitin E3 ligase that is expressed as multiple isoforms generated through alternative splicing of mRNA transcripts (1,2). Notably, *RCHY1* is a p53-regulated gene and multiple studies have shown that RCHY1 directly binds p53 to promote its ubiquitin-dependent proteasomal degradation, ultimately leading to repression of p53 growth suppressive transcriptional activity (1,3). RCHY1 is also likely to promote deregulated cell proliferation by targeting the CDK inhibitor, p27 Kip1, for proteasomal degradation (4). In agreement with its growth promoting activity, RCHY1 overexpression has been linked to cancer of the lung (5,6) and prostate (7).

Background References

1. Corcoran, C.A. et al. (2009) *J Biol Chem* 284, 21955-70.
2. Shi, J. et al. (2010) *Mol Cell Pharmacol* 2, 21-23.
3. Leng, R.P. et al. (2003) *Cell* 112, 779-91.
4. Hattori, T. et al. (2007) *Cancer Res* 67, 10789-95.
5. Duan, W. et al. (2004) *J Natl Cancer Inst* 96, 1718-21.
6. Duan, W. et al. (2006) *Exp Cell Res* 312, 3370-8.
7. Logan, I.R. et al. (2006) *Mol Cell Biol* 26, 6502-10.

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 **IP:** Immunoprecipitation**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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