Store at -20C

#2759

CUL3 Antibody

Cell Signaling
T E C H N O L O G Y®

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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 M R Mk	Endogenous	82, 84	Rabbit	#Q13618	8452

Product Usage Information	**Application**	**Dilution**
	Western Blotting	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

CUL3 Antibody detects endogenous levels of total Cullin-3.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Glu750 of human Cullin-3. Antibodies are purified by protein A and peptide affinity chromatography.

Background

CUL3 (Cullin-3) is a member of the cullin-based ubiquitin ligase family. By interacting with Hrt1 and BTB domain containing proteins, the complex functions as a CUL3-based E3 ligase to bring specific substrates to ubiquitinylation and degradation (1). The CUL3 complex has been shown to target many substrates involved in cell cycle progression (2), transcription (3), development and differentiation (4,5).

Background References

1. Pintard, L. et al. (2004) *EMBO J.* 23, 1681-1687.
2. Singer, J.D. et al. (1999) *Genes Dev.* 13, 2375-2387.
3. Furukawa, M. and Xiong, Y. (2005) *Mol Cell Biol* 25, 162-171.
4. Zhu, S. et al. (2005) *J. Neurosci.* 25, 4189-4197.
5. Ou, C.Y. et al. (2002) *Genes Dev.* 16, 2403-2414.

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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