

Product datasheet for **TA329091**

Cullin 3 (CUL3) Goat Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB: 1-3ug/ml, ELISA: 1:2,000
Reactivity:	Human (Expected from sequence similarity: Mouse, Rat)
Host:	Goat
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Internal region (AQVTGSNTRKHILQ)
Formulation:	Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin. Aliquot and store at -20°C. Minimize freezing and thawing.
Concentration:	lot specific
Purification:	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	cullin 3
Database Link:	NP_003581 Entrez Gene 26554 Mouse Entrez Gene 301555 Rat Entrez Gene 8452 Human Q13618



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Background:

Cullin proteins assemble a large number of RING E3 ubiquitin ligases and regulate various physiological processes (1). Cullin 3-based E3 ligase (CUL3) forms a catalytically inactive BTB-CUL3-Rbx1 (BCR) ubiquitin ligase, which becomes functional upon covalent attachment of the ubiquitin Nedd8 (neural precursor cell-expressed, developmentally downregulated 8) near the C terminus of CUL3 (2). CUL3 plays an essential role in both axonal arborization and proper elaboration of dendrites and may require neddylation for its proper function (3). The CUL3 pathway, which selects cyclin E for ubiquitination on the basis of its assembly into CDK complexes, may be one way to control cyclin abundance (4). In a complex with the substrate-specific adaptors KLHL9 and KLHL13, CUL3 is required for correct chromosome alignment in metaphase, proper midzone and midbody formation, and completion of cytokinesis (5).

Synonyms:

CUL-3; PHA2E

Protein Families:

Druggable Genome

Protein Pathways:

Ubiquitin mediated proteolysis

Product images:

TA329091 (1ug/ml) staining of Human Heart lysate (35ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.