



Rabbit anti-Human Cullin 3 polyclonal antibody (DPABH-12918)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	Core component of multiple cullin-RING-based BCR (BTB-CUL3-RBX1) E3 ubiquitin-protein ligase complexes which mediate the ubiquitination and subsequent proteasomal degradation of target proteins. As a scaffold protein may contribute to catalysis through positioning of the substrate and the ubiquitin-conjugating enzyme. The E3 ubiquitin-protein ligase activity of the complex is dependent on the neddylation of the cullin subunit and is inhibited by the association of the deneddylated cullin subunit with TIP120A/CAND1 (By similarity). The functional specificity of the BCR complex depends on the BTB domain-containing protein as the substrate recognition component. BCR(SPOP) is involved in ubiquitination of BMI1/PCGF4, H2AFY and DAXX, and probably GLI2 or GLI3. BCR(KLHL9-KLHL13) controls the dynamic behavior of AURKB on mitotic chromosomes and thereby coordinates faithful mitotic progression and completion of cytokinesis. Involved in ubiquitination of cyclin E and of cyclin D1 (in vitro) thus involved in regulation of G1/S transition.
Immunogen	Synthetic peptide: MSNL SKGTGSRK conjugated to KLH, corresponding to amino acids 1-12 of Human Cullin 3
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human
Conjugate	Unconjugated
Applications	WB, IP, ELISA, IHC-P
Format	Liquid
Size	50 µl

Preservative	0.01% Sodium Azide
Storage	Store at 4°C short term (1-2 weeks). Aliquot and store at -20°C long term. Avoid repeated freeze / thaw cycles.

GENE INFORMATION

Gene Name	CUL3 cullin 4 [Homo sapiens]
Official Symbol	CUL3
Synonyms	CUL3; cullin 3; CUL-3; PHA2E; cullin-3;
Entrez Gene ID	8452
Protein Refseq	NP_001244126.1
UniProt ID	B7Z600
Pathway	ATF-2 transcription factor network; Antigen processing: Ubiquitination & Proteasome degradation; Canonical Wnt signaling pathway; Cul3-SPOP complex
Function	POZ domain binding; cyclin binding; protein binding; ubiquitin protein ligase binding
