



CUL-1 Polyclonal Antibody

E20-71157**Catalog Number:**E20-71157**Amount:**100ul**Applications:**WB;IHC;IF;ELISA**Reactivity:**Human;Rat;Mouse**Target:**CUL-1

Fields:>>Cell cycle;>>Oocyte meiosis;>>Ubiquitin mediated proteolysis;>>Protein processing in endoplasmic reticulum;>>Wnt signaling pathway;>>Hedgehog signaling pathway;>>TGF-beta signaling pathway;>>Circadian rhythm;>>Shigellosis;>>Human immunodeficiency virus 1 infection;>>Pathways in cancer

Gene Name:CUL1**Protein Name:**Cullin-1**Human Gene Id:**8454**Human Swiss Prot No:**Q13616**Mouse Gene Id:**26965**Mouse Swiss Prot No:**Q9WTX6

Immunogen:The antiserum was produced against synthesized peptide derived from human Cullin 1. AA range:727-776

Specificity:CUL-1 Polyclonal Antibody detects endogenous levels of CUL-1 protein.

Formulation:Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Source:Polyclonal, Rabbit,IgG

Dilution:WB 1:500 - 1:2000. IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:20000. Not yet tested in other applications.

Purification:The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

Concentration:1 mg/ml

Storage Stability:-15°C to -25°C/1 year(Do not lower than -25°C)

Other Name:CUL1;Cullin-1;CUL-1

Observed Band(KD):90kD

Background:function:Core component of multiple cullin-RING-based SCF (SKP1-CUL1-F-box protein) E3 ubiquitin-protein ligase complexes, which mediate the ubiquitination of proteins involved in cell cycle progression, signal transduction and transcription. In the SCF complex, serves as a rigid scaffold that

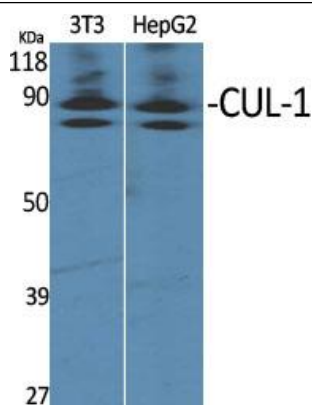
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organizes the SKP1-F-box protein and RBX1 subunits. May contribute to catalysis through positioning of the substrate and the ubiquitin-conjugating enzyme.

Function:function:Core component of multiple cullin-RING-based SCF (SKP1-CUL1-F-box protein) E3 ubiquitin-protein ligase complexes, which mediate the ubiquitination of proteins involved in cell cycle progression, signal transduction and transcription. In the SCF complex, serves as a rigid scaffold that organizes the SKP1-F-box protein and RBX1 subunits. 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. The functional specificity of the SCF complex depends on the F-box protein as substrate recognition component. SCF(BTRC) and SCF(FBXW11) direct ubiquitination of CTNNB1 and participates in Wnt signaling. SCF(BTRC) and SCF(FBXW11) direct ubiquitination

Subcellular Location:nucleoplasm,cytosol,SCF ubiquitin ligase complex,cullin-RING ubiquitin ligase complex,Parkin-FBXW7-Cul1 ubiquitin ligase complex,

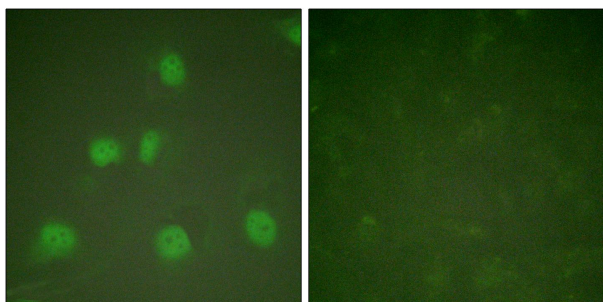
Expression:Expressed in lung fibroblasts.



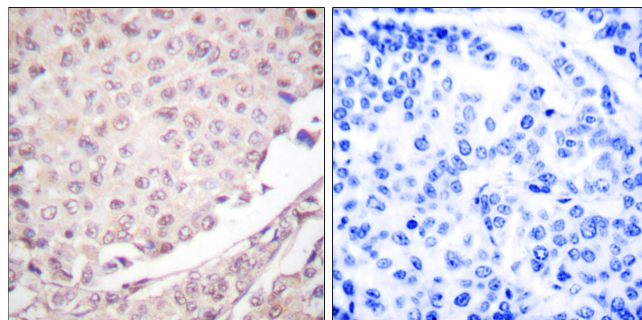
Western Blot analysis of various cells using CUL-1 Polyclonal Antibody.



Western Blot analysis of HeLa cells using CUL-1 Polyclonal Antibody.



Immunofluorescence analysis of HeLa cells, using Cullin 1 Antibody. The picture on the right is blocked with the synthesized peptide.



Immunohistochemistry analysis of paraffin-embedded human lung carcinoma tissue, using Cullin 1 Antibody. The picture on the right is blocked with the synthesized peptide.