

CUL-3 Polyclonal Antibody

Catalog No :	YT1159
Reactivity :	Human;Mouse
Applications :	WB;IHC;IF;ELISA
Target :	CUL-3
Fields :	>>Ubiquitin mediated proteolysis;>>Hedgehog signaling pathway
Gene Name :	CUL3
Protein Name :	Cullin-3
Human Gene Id :	8452
Human Swiss Prot No :	Q13618
Mouse Gene Id :	26554
Mouse Swiss Prot No :	Q9JLV5
Immunogen :	The antiserum was produced against synthesized peptide derived from human Cullin 3. AA range:1-50
Specificity :	CUL-3 Polyclonal Antibody detects endogenous levels of CUL-3 protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500-2000 IHC 1:100 - 1:300. ELISA: 1:5000. IF 1:50-200
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)

Observed Band : 90kD

Cell Pathway : Ubiquitin mediated proteolysis;

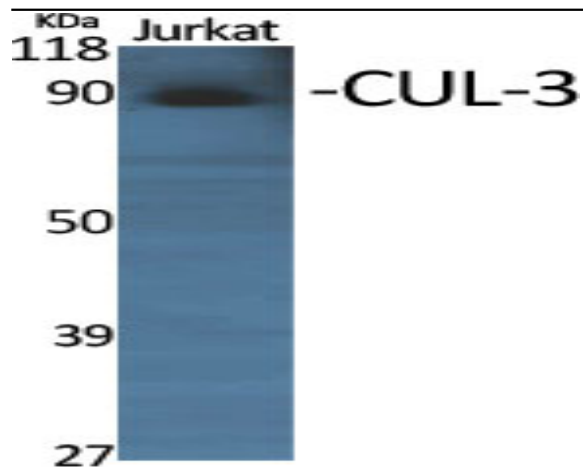
Background : This gene encodes a member of the cullin protein family. The encoded protein plays a critical role in the polyubiquitination and subsequent degradation of specific protein substrates as the core component and scaffold protein of an E3 ubiquitin ligase complex. Complexes including the encoded protein may also play a role in late endosome maturation. Mutations in this gene are a cause of type 2E pseudohypoaldosteronism. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Mar 2012],

Function : function: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 pro

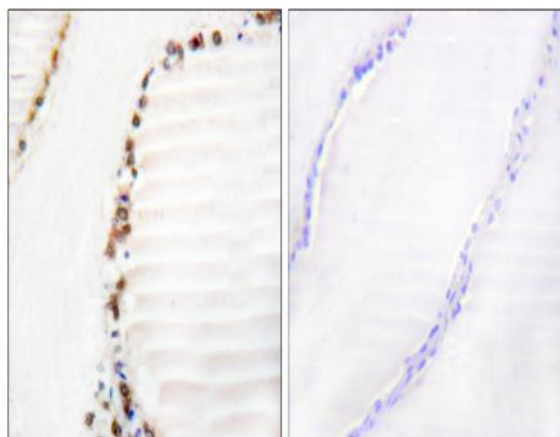
Subcellular Location : Nucleus . Golgi apparatus . Cell projection, cilium, flagellum . Cytoplasm, cytoskeleton, spindle . Cytoplasm. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome . Cytoplasm, cytoskeleton, spindle pole . Detected along the length of the sperm flagellum and in the cytoplasm of the germ cells (PubMed:28395323). Predominantly found in the nucleus in interphase cells, found at the centrosome at late G2 or prophase, starts accumulating at the spindle poles in prometaphase and stays on the spindle poles and the mitotic spindle at metaphase (PubMed:23213400). .

Expression : Brain, spermatozoa, and testis (at protein level). Widely expressed.

Products Images



Western Blot analysis of various cells using CUL-3 Polyclonal Antibody diluted at 1:1000



Immunohistochemistry analysis of paraffin-embedded human thyroid gland tissue, using Cullin 3 Antibody. The picture on the right is blocked with the synthesized peptide.