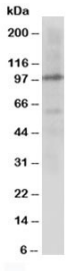
Cullin 4B Antibody (R30335)

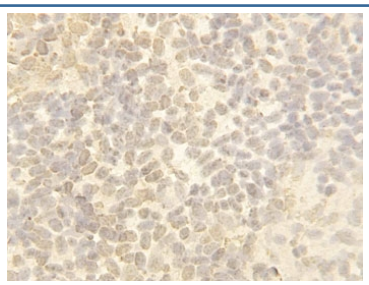
Catalog No.	Formulation	Size
R30335	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat, Zebrafish
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide/thimerosal
UniProt	Q13620
Applications	Western blot: 0.5-1ug/ml IHC (FFPE): 0.5-1ug/ml
Limitations	This Cullin 4B antibody is available for research use only.



Western blot testing of Cullin 4B antibody and rat lung tissue lysate



IHC-P: Cullin 4B antibody testing of Zebrafish Body tissue

Description

Cullin 4B/CUL4B encodes a scaffold protein that organizes a cullin-RING(really interesting new gene) ubiquitin ligase(E3) complex in ubiquitylation. The CUL4 gene encodes a protein of 913 amino acids. The cullin domain is located between amino acid residues 217 and 815 and is characterized a by C-terminal globular domain(cullin homology domain) and a series of N-terminal repeats(cullin repeats). Ohtake et al.(2007) characterize a fat-soluble ligand-dependent ubiquitin ligase complex in human cell lines, in which dioxin receptor(AhR) is integrated as a component of a novel cullin 4B ubiquitin ligase complex, CUL4B(AhR). Complex assembly and ubiquitin ligase activity of CUL4B(AhR) in vitro and in vivo are dependent on the AhR ligand. In the CUL4B(AhR) complex, ligand-activated AhR acts as a substrate-specific adaptor component that targets sex steroid receptors for degradation. Their findings uncover a function for AhR as an atypical component of the ubiquitin ligase complex and demonstrate a non-genomic signalling pathway in which fat-soluble ligands regulate target-protein-selective degradation through a ubiquitin ligase complex.

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the Cullin 4B antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

An amino acid sequence from the C-terminus of human Cullin 4B (DRDYMERDKENPNQYNYIA) was used as the immunogen for this Cullin 4B antibody (100% homologous in human, mouse and rat).

Storage

After reconstitution, the Cullin 4B antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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