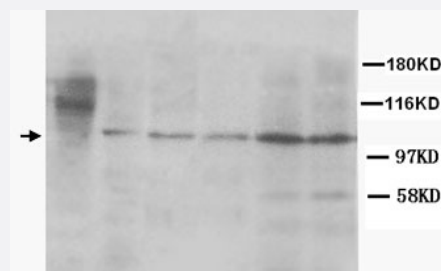


CUL4B polyclonal antibody

Catalog # PAB12320 Size 100 ug

Applications



Western Blot

Western Blot analysis of CUL4B expression from cell and tissue extracts with CUL4B polyclonal antibody (Cat # PAB12320).

Lane 1 : female zebrafish tissue lysate.

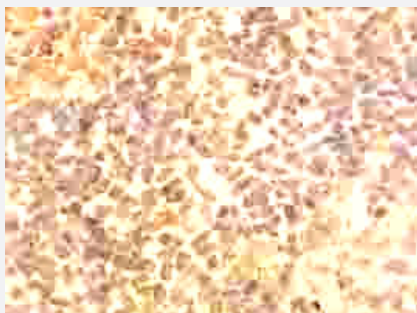
Lane 2 : MM453 whole cell lysate.

Lane 3 : rat liver tissue lysate.

Lane 4 : rat lung tissue lysate.

Lane 5 : MCF-7 whole cell lysate.

Lane 6 : MM231 whole cell lysate.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining of CUL4B on formalin fixed, paraffin embedded zebrafish body with CUL4B polyclonal antibody (Cat # PAB12320).

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of CUL4B.
Immunogen	A synthetic peptide corresponding to human CUL4B.
Host	Rabbit
Theoretical MW (kDa)	76.8, 87.6
Reactivity	Human, Rat, Zebra fish
Specificity	Identical to the related rat and mouse sequence.

Form	Lyophilized
Purification	Affinity purification
Isotype	IgG
Recommend Usage	Western Blot (1 ug/mL) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (2 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ (5 mg BSA, 0.05 mg sodium azide, 0.05 mg Thimerosal)
Storage Instruction	Store at -20°C on dry atmosphere. After reconstitution with 200 uL of deionized water and concentration will be 500 ug/mL, store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide and thimerosal: POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot

Western Blot analysis of CUL4B expression from cell and tissue extracts with CUL4B polyclonal antibody (Cat # PAB12320).

Lane 1 : female zebrafish tissue lysate.

Lane 2 : MM453 whole cell lysate.

Lane 3 : rat liver tissue lysate.

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Lane 5 : MCF-7 whole cell lysate.

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- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining of CUL4B on formalin fixed, paraffin embedded zebrafish body with CUL4B polyclonal antibody (Cat # PAB12320).

Gene Info — CUL4B

Entrez GeneID	8450
Gene Name	CUL4B
Gene Alias	DKFZp686F1470, KIAA0695, MRXHF2, MRXSC, SFM2

Gene Description	cullin 4B
Omim ID	300304 300354 300639
Gene Ontology	Hyperlink
Gene Summary	This gene is a member of the cullin family. The encoded protein forms a complex that functions as an E3 ubiquitin ligase and catalyzes the polyubiquitination of specific protein substrates in the cell . The protein interacts with a ring finger protein, and is required for the proteolysis of several regulators of DNA replication including chromatin licensing and DNA replication factor 1 and cyclin E. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq]
Other Designations	OTTHUMP00000023946 OTTHUMP00000023947 cullin-4B

Publication Reference

- [Dioxin receptor is a ligand-dependent E3 ubiquitin ligase.](#)

Ohtake F, Baba A, Takada I, Okada M, Iwasaki K, Miki H, Takahashi S, Kouzmenko A, Nohara K, Chiba T, Fujii-Kuriyama Y, Kato S.

Nature 2007 Mar; 446(7135):562.

Application: IP, WB, Human, LNCaP, MCF-7 cells

- [Mutation in CUL4B, which encodes a member of cullin-RING ubiquitin ligase complex, causes X-linked mental retardation.](#)

Zou Y, Liu Q, Chen B, Zhang X, Guo C, Zhou H, Li J, Gao G, Guo Y, Yan C, Wei J, Shao C, Gong Y.

American Journal of Human Genetics 2007 Mar; 80(3):561.

- [Mutations in CUL4B, which encodes a ubiquitin E3 ligase subunit, cause an X-linked mental retardation syndrome associated with aggressive outbursts, seizures, relative macrocephaly, central obesity, hypogonadism, pes cavus, and tremor.](#)

Tarpey PS, Raymond FL, O'Meara S, Edkins S, Teague J, Butler A, Dicks E, Stevens C, Tofts C, Avis T, Barthorpe S, Buck G, Cole J, Gray K, Halliday K, Harrison R, Hills K, Jenkinson A, Jones D, Menzies A, Mironenko T, Perry J, Raine K, Richardson D, Shepherd R, Small A, Varian J, West S, Widaa S, Mallya U, Moon J, Luo Y, Holder S, Smithson SF, Hurst JA, Clayton-Smith J, Kerr B, Boyle J, Shaw M, Vandeleur L, Rodriguez J, Slaugh R, Easton DF, Wooster R, Bobrow M, Srivastava AK, Stevenson RE, Schwar

American Journal of Human Genetics 2007 Feb; 80(2):345.

Pathway

- [Nucleotide excision repair](#)

- [Ubiquitin mediated proteolysis](#)