

Datasheet for ABIN3044348  
**anti-Cullin 4B antibody (C-Term)**



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2 Images

## Overview

Quantity:	100 µg
Target:	Cullin 4B (CUL4B)
Binding Specificity:	AA 895-913, C-Term
Reactivity:	Human, Rat, Zebrafish (Danio rerio)
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Cullin 4B antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

## Product Details

Purpose:	Rabbit IgG polyclonal antibody for Cullin-4B(CUL4B) detection. Tested with WB, IHC-P in Human, Mouse, Rat, Zebrafish.
Immunogen:	A synthetic peptide corresponding to a sequence at the C-terminus of human Cullin 4B(895-913aa DRDYMERDKENPNQYNYIA), identical to the related rat and mouse sequences.
Sequence:	DRDYMERDKE NPNQYNYIA
Isotype:	IgG
Cross-Reactivity (Details):	<p>Predicted Cross Reactivity: mouse</p> <p>No cross reactivity with other proteins.</p> <p>Predicted Cross Reactivity: Species predicted to be fit for the product based on sequence similarities.</p>
Characteristics:	Rabbit IgG polyclonal antibody for Cullin-4B(CUL4B) detection. Tested with WB, IHC-P in

## Product Details

Human,Mouse,Rat,Zebrafish.  
Gene Name: cullin 4B  
Protein Name: Cullin-4B(CUL-4B)

Purification: Immunogen affinity purified.

## Target Details

Target: Cullin 4B (CUL4B)

Alternative Name: CUL4B ([CUL4B Products](#))

Background: 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.

Synonyms: CUL 4B antibody|CUL-4B antibody|CUL4B antibody|CUL4B\_HUMAN antibody|Cullin-4B antibody|DKFZp686F1470 antibody|KIAA0695 antibody|MRXHF2 antibody|MRXSC antibody|SFM2 antibody

UniProt: [Q13620](#)

## Application Details

Application Notes: WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Rat, Zebrafish, Predicted Species: Mouse  
IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Zebrafish, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections.

## Application Details

Notes: Tested Species: Species with positive results. Predicted Species: Species predicted to be fit for the product based on sequence similarities. Other applications have not been tested.  
Optimal dilutions should be determined by end users.

Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).

Restrictions: For Research Use only

## Handling

Format: Lyophilized

Reconstitution: Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

Concentration: 500 µg/mL

Buffer: Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05 mg Thimerosal, 0.05 mg Sodium azide.

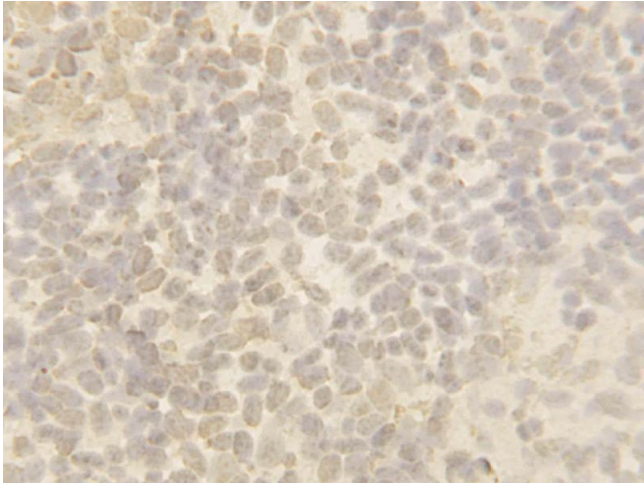
Preservative: Thimerosal (Merthiolate), Sodium azide

Precaution of Use: This product contains Sodium azide and Thimerosal (Merthiolate): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.

Handling Advice: Avoid repeated freezing and thawing.

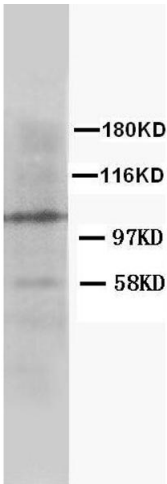
Storage: 4 °C/-20 °C

Storage Comment: At -20°C for one year. After reconstitution, at 4°C for one month.  
It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.



**Immunohistochemistry**

**Image 1.** Anti-Cullin 4B antibody, IHC(P) IHC(P): Zebrafish Body Tissue



**Western Blotting**

**Image 2.** Anti-Cullin 4B antibody, Western blotting WB: Rat Lung Tissue Lysate