

Product datasheet

Anti-Cullin 2/CUL-2 antibody [EPR3104(2)] ab166917

Recombinant RabMAb

★★★★★ [3 Abreviews](#) [20 References](#) [5 Images](#)

Overview

Product name	Anti-Cullin 2/CUL-2 antibody [EPR3104(2)]
Description	Rabbit monoclonal [EPR3104(2)] to Cullin 2/CUL-2
Host species	Rabbit
Tested applications	Suitable for: Flow Cyt (Intra), WB, IP Unsuitable for: ICC/IF or IHC-P
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide within Human Cullin 2/CUL-2 aa 1-100. The exact sequence is proprietary. Database link: Q13617
Positive control	WB: PC3, 293T, HeLa, Raji cell lysates; mouse and rat brain, heart, kidney and spleen lysates. Flow Cyt (intra): 293T cells.
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information see here . Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents .

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR3104(2)

Isotype

IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab166917 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt (Intra)		1/100.
WB	★★★★★ (2)	1/1000 - 1/10000. Predicted molecular weight: 87 kDa.
IP	★★★★★ (1)	1/10 - 1/100.

Application notes

Is unsuitable for ICC/IF or IHC-P.

Target

Function

Core component of multiple cullin-RING-based ECS (ElonginB/C-CUL2/5-SOCS-box protein) E3 ubiquitin-protein ligase complexes, which mediate the ubiquitination of target proteins. May serve as a rigid scaffold in the complex and 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 ECS complex depends on the substrate recognition component. ECS(VHL) mediates the ubiquitination of hypoxia-inducible factor (HIF).

Pathway

Protein modification; protein ubiquitination.

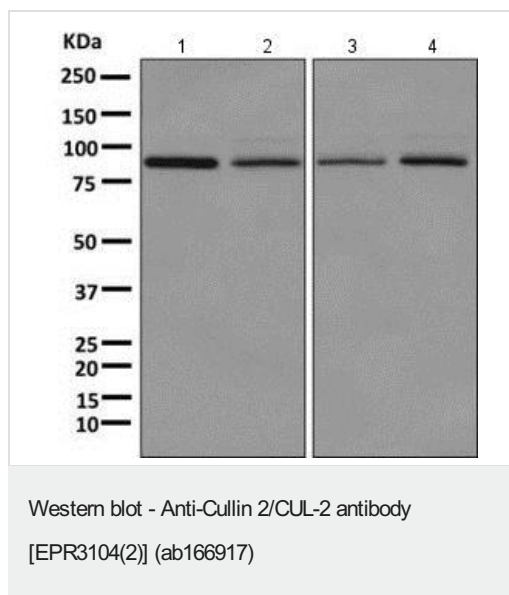
Sequence similarities

Belongs to the cullin family.

Post-translational modifications

CBC(VHL) complex formation seems to promote neddylation. Deneddylated via its interaction with the COP9 signalosome (CSN) complex.

Images



All lanes : Anti-Cullin 2/CUL-2 antibody [EPR3104(2)] (ab166917) at 1/1000 dilution

Lane 1 : PC3 cell lysate

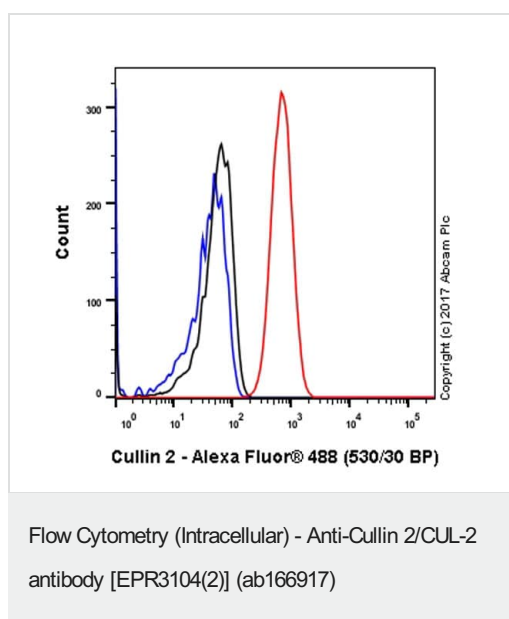
Lane 2 : 293T cell lysate

Lane 3 : HeLa cell lysate

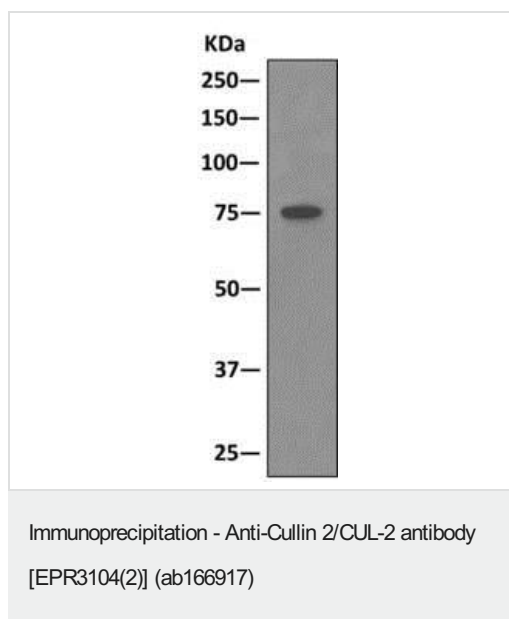
Lane 4 : Raji cell lysate

Lysates/proteins at 10 µg per lane.

Predicted band size: 87 kDa

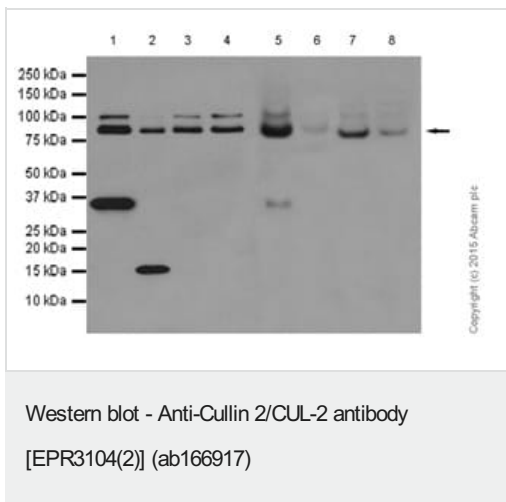


Intracellular Flow Cytometry analysis of 293T (Human embryonic kidney epithelial cell) cells labeling Cullin 2/CUL-2 (red) with ab166917 at a 1/100 dilution. Cells were fixed with 4% paraformaldehyde and permeabilized with 90% methanol. A goat anti-rabbit IgG (Alexa Fluor® 488) (**ab150077**) was used as the secondary antibody at a 1/2000 dilution. Black - Rabbit monoclonal IgG (**ab172730**). Blue (unlabeled control) - Cells without incubation with the primary and secondary antibodies.



Western blot analysis of an immunoprecipitation pellet from Raji cell lysate labeling Cullin 2/CUL-2 with ab166917 which was used at 1/10 dilution for immunoprecipitation.

Secondary antibody used was an HRP-conjugated anti-rabbit IgG preferentially detecting the non-reduced form of rabbit IgG.



All lanes : Anti-Cullin 2/CUL-2 antibody [EPR3104(2)] (ab166917) at 1/2000 dilution

Lane 1 : Mouse brain lysate

Lane 2 : Mouse heart lysate

Lane 3 : Mouse kidney lysate

Lane 4 : Mouse spleen lysate

Lane 5 : Rat brain lysate

Lane 6 : Rat heart lysate

Lane 7 : Rat kidney lysate

Lane 8 : Rat spleen lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

Predicted band size: 87 kDa

Exposure time: 3 minutes

Blocking and Diluting buffer: 5% NFDM/TBST

Why choose a recombinant antibody?

Research with confidence
Consistent and reproducible results

Long-term and scalable supply
Recombinant technology

Success from the first experiment
Confirmed specificity

Ethical standards compliant
Animal-free production

Anti-Cullin 2/CUL-2 antibody [EPR3104(2)] (ab166917)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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