

Cullin 1 Monoclonal Antibody (2H4C9)

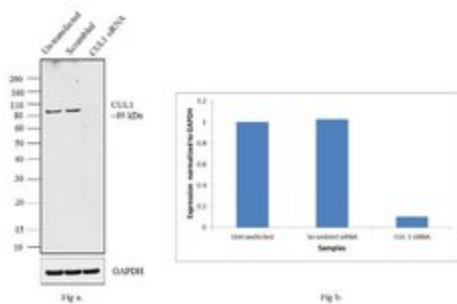
Product Details	
Size	100 µg
Species	Human
Published Species	Insect, Virus, Human, Mouse
Expression System	Mouse / IgG1, kappa
Class	Monoclonal
Type	Antibody
Clone	2H4C9
Conjugate	Unconjugated
Immunogen	A synthetic peptide corresponding to an 11 amino acid sequence at the C-terminus of the human CUL-1 protein.
Form	Liquid
Concentration	0.5 mg/mL
Purification	Protein A
Storage buffer	PBS, pH 7.4
Contains	0.1% sodium azide
Storage Conditions	-20°C
RRID	AB_2533070

Applications	Tested Dilution	Publications
ELISA (ELISA)	0.1-1.0 µg/mL	-
Immunoprecipitation (IP)	5-10 µg	2 Publications
Western Blot (WB)	1-2 µg/mL	18 Publications

Product Specific Information

CUL-1 Antibody (2H4C9), Prod# 32-2400 specifically detects neddylated and unmodified Cullin 1 in human cells.

Advanced Verification Data



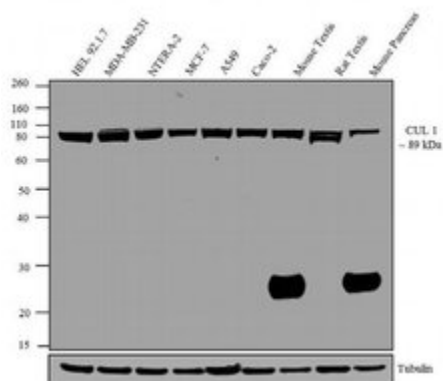
Cullin 1 Antibody (32-2400)

Antibody specificity was demonstrated by siRNA mediated knockdown of target protein. A549 cells were transfected with CUL1 siRNA and decrease in signal intensity was observed in western blot application (Fig a) using Anti-CUL 1 Mouse Monoclonal Antibody (Product # 32-2400). Densitometric analysis of this western blot is shown in histogram (Fig b) Knockdown validation info.

Product Images For Cullin 1 Monoclonal Antibody (2H4C9)

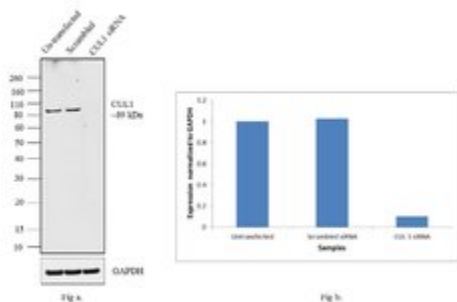
Cullin 1 Antibody (32-2400) in WB

Western blot analysis was performed on whole cell, tissue extracts (30 µg lysate) of HEL 92.1.7 (Lane 1), MDA-MB-231 (Lane 2), NTERA-2 (Lane 3), MCF-7 (Lane 4), A549 (Lane 5), Caco-2 (Lane 6), Mouse Testis (Lane 7), Rat Testis (Lane 8) and Mouse pancreas (Lane 9). The blots were probed with Anti- CUL1 Mouse Monoclonal Antibody (Product # 32-2400, 1-2 µg/mL) and detected by chemiluminescence using Goat anti-Mouse IgG (H+L) Superclonal™ Secondary Antibody, HRP conjugate (Product # A28177, 0.4 µg/mL, 1:2500 dilution). A ~ 89 kDa band corresponding to CUL1 was observed across cell lines tested. Additionally ~25 kDa band was observed across mouse species. Known quantity of protein samples were electrophoresed using Novex® NuPAGE® 10 % Bis-Tris gel (Product # NP0302BOX), XCell SureLock™ Electrophoresis System (Product # EI0002) and Novex® Sharp Pre-Stained Protein Standard (Product # LC5800). Resolved proteins were then transferred onto a nitrocellulose membrane with Pierce™ Power Blotter System (Product # 22834). The membrane was probed with the relevant primary and secondary Antibody following blocking with 5 % skimmed milk. Chemiluminescent detection was performed using Pierce™ ECL Western Blotting Substrate (Product # 32106).



Cullin 1 Antibody (32-2400) in WB

Knockdown of CUL 1 was achieved by transfecting A549 cells with CUL 1 specific siRNAs (Silencer® select Product # s16055 and s228373). Western blot analysis (Fig a) was performed using whole cell extracts from the CUL 1 knock down cells (lane 3), non-specific scrambled siRNA transfected cells (lane 2) and untransfected cells (lane 1). The blots were probed with Anti-CUL 1 Mouse monoclonal Antibody (Product # 32-2400, 2µg/mL) and Goat anti-Mouse IgG (H+L) Superclonal™ Secondary Antibody, HRP conjugate (Product # A28177, 0.4 µg/mL, 1:5000 dilution). Densitometric analysis of this western blot is shown in histogram(Fig b). Loss of signal upon siRNA mediated knock down confirms that antibody is specific to CUL 1.



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20 References

Western Blot (18)

Cell reports

The Balance between Mono- and NEDD8-Chains Controlled by NEDP1 upon DNA Damage Is a Regulatory Module of the HSP70 ATPase Activity.

"Published figure using Cullin 1 monoclonal antibody (Product # 32-2400) in Western Blot"

Authors: Bailly AP, Perrin A, Serrano-Macia M, Maghames C, Leidecker O, Trauchessec H, Martinez-Chantar ML, Gartner A, Xirodimas DP

Species
Not Applicable

Dilution
Not Cited

Year
2019

Cell reports

NS5A Promotes Constitutive Degradation of IP3R3 to Counteract Apoptosis Induced by Hepatitis C Virus.

"32-2400 was used in Western Blotting to reveal an 1,4,5-trisphosphate-independent molecular mechanism through which hepatitis C virus promotes IP3R3 degradation, thereby inhibiting virus-induced apoptosis and establishing chronic infection."

Authors: Kuchay S, Saeed M, Giorgi C, Li J, Hoffmann HH, Pinton P, Rice CM, Pagano M

Species
Human

Dilution
1:1000

Year
2018

[View more WB references on thermofisher.com](#)

Immunoprecipitation (2)

PloS one

Early insights into the function of KIAA1199, a markedly overexpressed protein in human colorectal tumors.

"32-2400 was used in immunoprecipitation to examine the localization and function of KIAA99 in human colorectal tumors."

Authors: Tiwari A, Schneider M, Fiorino A, Haider R, Okoniewski MJ, Roschitzki B, Uzozie A, Menigatti M, Jiricny J, Marra G

Species
Human

Dilution
5 ug

Year
2014

Proceedings of the National Academy of Sciences of the United States of America

Cullin-3 regulates late endosome maturation.

Authors: Huotari J, Meyer-Schaller N, Hubner M, Stauffer S, Katheder N, Horvath P, Mancini R, Helenius A, Peter M

Species
Virus

Dilution
Not Cited

Year
2012

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