

Cdc6 Monoclonal Antibody (DCS-180)

Product Details	
Size	500 µL
Species Reactivity	Human
Published Species	Rat, Mouse, Human
Host/Isotype	Mouse / IgG1
Class	Monoclonal
Type	Antibody
Clone	DCS-180
Conjugate	Unconjugated
Immunogen	Recombinant human CDC6 protein
Form	Liquid
Concentration	0.2 mg/mL
Purification	Protein G
Storage buffer	PBS, pH 7.4, with 0.2% BSA
Contains	0.09% sodium azide
Storage conditions	4° C
RRID	AB_10980382

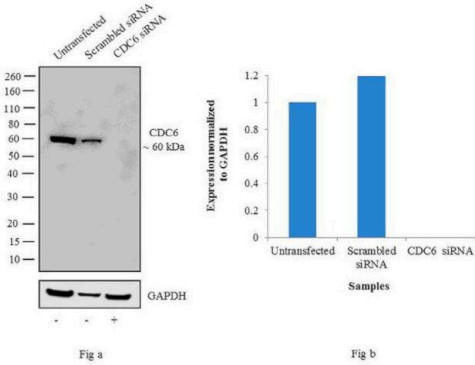
Applications	Tested Dilution	Publications
Western Blot (WB)	1-2 µg/mL	5 Publications
Immunoprecipitation (IP)	2 µg/mL	-
Miscellaneous PubMed (Misc)	-	1 Publication

Product Specific Information

MA5-14314 targets CDC6 in IP and WB applications and shows reactivity with Human samples.

The MA5-14314 immunogen is recombinant human CDC6 protein.

Product Images For Cdc6 Monoclonal Antibody (DCS-180)

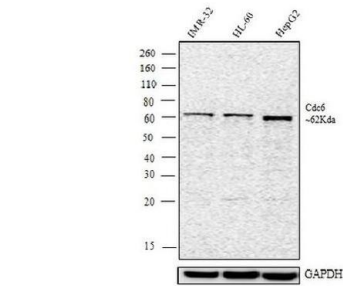


Cdc6 Antibody (MA5-14314)

Antibody specificity was demonstrated by siRNA mediated knockdown of target protein. HeLa cells were transfected with Cdc6 siRNA and decrease in signal intensity was observed in western blot application using anti-Cdc6 siRNA (Product # MA5-14314). {KD}

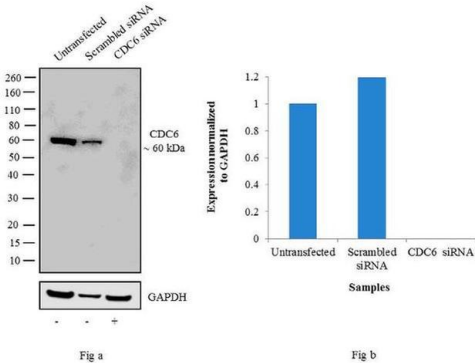
Cdc6 Antibody (MA5-14314) in WB

Western blot analysis was performed on whole cell extracts (30 µg lysate) of IMR-32 (Lane 1), HL-60 (Lane 2) and HepG2 (Lane 3). The blots were probed with Anti-CDC6 Monoclonal Antibody (Product # 13-7000, 2 µg/mL) and detected by chemiluminescence using Goat anti-Mouse IgG (H+L) Superclonal™ Secondary Antibody, HRP conjugate (Product # A28177, 0.25 µg/mL, 1:4000 dilution). A 62 kDa corresponding to CDC6 was observed across the cell lines tested. Known quantity of protein samples were electrophoresed using Novex® NuPAGE® 4-12 % Bis-Tris gel (Product # NP0322BOX), 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 iBlot® 2 Dry Blotting System (Product # IB21001). The membrane was probed with the relevant primary antibody following blocking with 5 % skimmed milk. Chemiluminescent detection was performed using Pierce™ ECL Western Blotting Substrate (Product # 32106).



Cdc6 Antibody (MA5-14314) in WB

Knockdown of Cdc6 was achieved by transfecting HeLa cells with Cdc6 specific siRNAs (Silencer® select Product # s2744 and s2746). Western blot analysis (Fig a) was performed using Modified whole cell extract (1% SDS) from the Cdc6 knock down cells (lane 3), non-specific scrambled siRNA transfected cells (lane 2) and untransfected cells (lane 1). The blots were probed with Anti-Cdc6 Mouse Monoclonal Antibody (Product # MA5-14314, 0.2 µg/mL) and Goat anti-Mouse IgG (H+L) Superclonal™ Secondary Antibody, HRP conjugate (Product # A28177, 0.25 µg/mL, 1:4000 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 Cdc6.



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6 References

Western Blot (5)

The Journal of biological chemistry

Cdc6 protein activates p27KIP1-bound Cdk2 protein only after the bound p27 protein undergoes C-terminal phosphorylation.

"MA5-14314 was used in western blot to study the mechanism of Cdk2 activation by Cdc6 protein"

Authors: Uranbileg B,Yamamoto H,Park JH,Mohanty AR,Arakawa-Takeuchi S,Jinno S,Okayama H

Year
2012

Species
Rat

Journal of virology

Inactivation and disassembly of the anaphase-promoting complex during human cytomegalovirus infection is associated with degradation of the APC5 and APC4 subunits and does not require UL97-mediated phosphorylation of Cdh1.

"MA5-14314 was used in western blot to study the molecular mechanism underlying anaphase-promoting complex inactivation during human CMV infection"

Authors: Tran K,Kamil JP,Coen DM,Spector DH

Year
2010

Species
Human

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Miscellaneous PubMed (1)

Stem cell research

The abundance of Rad51 protein in mouse embryonic stem cells is regulated at multiple levels.

"MA5-14314 was used in western blot to investigate regulatory mechanisms that control homologous recombination."

Authors: Tichy ED,Pillai R,Deng L,Tischfield JA,Hexley P,Babcock GF,Stambrook PJ

Year
2012

Species
Mouse

More applications with references on thermofisher.com

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