

Rabbit anti-Human MDC1 Polyclonal Antibody | anti-MDC1 antibody

Rabbit anti-MDC1 Antibody, Affinity Purified

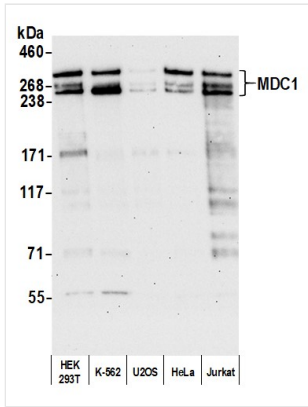
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA210737	Rabbit	Human	Immunoprecipitation, Western Blot

PRODUCT SYNONYMS

MDC1; Polyclonal Antibody; Rabbit anti-MDC1 Antibody; Affinity Purified; homologue to Drosophila photoreceptor protein calphotin; mediator of DNA damage checkpoint protein 1; NFB1; nuclear factor with BRCT domains 1; Mediator of DNA damage checkpoint protein 1; mediator of DNA damage checkpoint 1; anti-MDC1 antibody

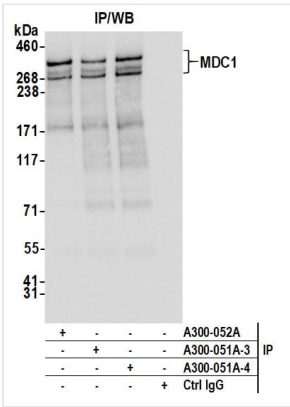
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Purity/Purification	Antigen Affinity Purified
Form/Format	Liquid. Whole IgG. Tris-citrate/phosphate buffer, pH 7 to 8 containing 0.09% Sodium Azide
Concentration	1000ug/ml (varies by lot)
Applicable Applications for anti-MDC1 antibody	IP (Immunoprecipitation), WB (Western Blot)
Predicted Reactivity	Monkey, Chimpanzee
Immunogen	Between 475 and 525
Conjugation	Unconjugated
Preparation and Storage	Store at 2-8 degree C Shelf Life: 1 year from date of receipt



WB (Western Blot)

Detection of human MDC1 by western blot. Samples: Whole cell lysate (10 ug) from HEK293T, K-562, U2OS, HeLa, and Jurkat cells prepared using NETN lysis buffer. Antibody: Affinity purified rabbit anti-MDC1 antibody (AAA210737 lot 4) used for WB at 0.04 ug/ml. Detection: Chemiluminescence with an exposure time of 30 seconds.



IP (Immunoprecipitation)

Detection of human MDC1 by western blot of immunoprecipitates. Samples: Whole cell lysate (1.0 mg per IP reaction; 5% of IP loaded) from HEK293T cells prepared using NETN lysis buffer. Antibodies: Affinity purified rabbit anti-MDC1 antibody (AAA210737 lot 4) used for IP at 3 ug per reaction. MDC1 was also immunoprecipitated by a previous lot of this antibody (AAA210737 lot 3) and another antibody against a different epitope of MDC1 . For blotting immunoprecipitated MDC1, AAA210737 was used at 0.04 ug/ml. Detection: Chemiluminescence with an exposure time of 1 second.

ADDITIONAL INFORMATION

Related Product Information for anti-MDC1 antibody	Mediator of DNA damage checkpoint protein 1 (Mdc1) is required for checkpoint mediated cell cycle arrest in response to DNA damage within both the S phase and G2/M phases of the cell cycle. It may serve as a scaffold for the recruitment of DNA repair and signal transduction proteins to discrete foci of DNA damage marked by 'Ser-139' phosphorylation of histone H2AFX. It is also required for downstream events subsequent to the recruitment of these proteins. These include phosphorylation and activation of the ATM, CHEK1 and CHEK2 kinases, and stabilization of TP53 and apoptosis [taken from the Universal Protein Resource (UniProt) www.uniprot.org/uniprot/Q5PSV9].
Product Categories/Family for anti-MDC1 antibody	Primary Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GeneID	9656
UniProt Accession #	Q14676
UniProt Protein Name	Mediator of DNA damage checkpoint protein 1
UniProt Gene Name	MDC1
UniProt Synonym Gene Names	KIAA0170; NFBD1
UniProt Entry Name	MDC1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/mdc1-antibody-immunoprecipitation-western-blot-elisa/210737>