

Mediator of DNA damage checkpoint protein 1 Recombinant Protein | MDC1 recombinant protein

Recombinant Human Mediator of DNA damage checkpoint protein 1

CATALOG # AAA116696	HOST E Coli or Yeast or Baculovirus or Mammalian Cell
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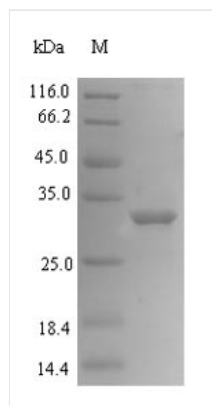
PRODUCT SYNONYMS

Mediator of DNA damage checkpoint protein 1; Recombinant Human Mediator of DNA damage checkpoint protein 1; Nuclear factor with BRCT domains 1; MDC1 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	1892-2082aa; Partial
Sequence	APKVLFTGVV DARGERAVLA LGGSLAGSAA EASHLVTDRI RRTVKFLCAL GRGIPILSLD WLHQSRKAGF FLPPDEYVVT DPEQEKNFGF SLQDALSRAR ERRLLEGYEI YVTPGVQPPP PQMGEIISCC GGTYLPSMPR SYKPQRVVIT CPQDFPHCSI PLRVGLPLLS PEFLTGVLK QEAKPEAFVL S
Sequence Length	2089
Species	Homo sapiens
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for MDC1 recombinant protein	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. 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. 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. ATM and CHEK2 may also be activated independently by a parallel pathway mediated by TP53BP1.
Product Categories/Family for MDC1 recombinant protein	Epigenetics and Nuclear Signaling
References	"53BP1 and NFBD1/MDC1-Nbs1 function in parallel interacting pathways activating ataxia-telangiectasia mutated (ATM) in response to DNA damage." Mochan T.A., Venere M., DiTullio R.A. Jr., Halazonetis T.D. Cancer Res. 63:8586-8591(2003)

NCBI AND UNIPROT INFORMATION

NCBI GI #	132626688
NCBI GeneID	9656
NCBI Accession #	NP_055456.2
NCBI GenBank Nucleotide #	NM_014641.2
UniProt Accession #	Q14676; Q0EFC2; Q2L6H7; Q2TAZ4; Q5JP55; Q5JP56; Q5ST83; A2AB04; A2BF04; A2RRA8; A7YY86; B0S8A2
Molecular Weight	22.9 kDa
NCBI Official Full Name	mediator of DNA damage checkpoint protein 1
NCBI Official Synonym Full Names	mediator of DNA damage checkpoint 1
NCBI Official Symbol	MDC1
NCBI Official Synonym Symbols	NFBD1
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/mdc1-recombinant-protein-e-coli-or-yeast-or-baculovirus-or-mammalian-cell/116696>