

## MDC1

**Reactivity:**Human

**Tested applications:**WB IHC

**Recommended Dilution:**WB 1:500 - 1:2000 IHC 1:100 - 1:200

**Calculated MW:**227kDa

**Observed MW:**Refer to figures

**Immunogen:**

Recombinant protein of human MDC1

**Storage Buffer:**

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

**Synonym:**

NFBD1;

**Catalog #:**A8358

**Antibody Type:**

Polyclonal Antibody

**Species:**Rabbit

**Gene ID:**9656

**Isotype:**IgG

**Swiss Prot:**Q14676

**Purity:**Affinity purification

For research use only.

**Background:**

The protein encoded by this gene contains an N-terminal forkhead domain, two BRCA1 C-terminal (BRCT) motifs and a central domain with 13 repetitions of an approximately 41-amino acid sequence. The encoded protein is required to activate the intra-S phase and G2/M phase cell cycle checkpoints in response to DNA damage. This nuclear protein interacts with phosphorylated histone H2AX near sites of DNA double-strand breaks through its BRCT motifs, and facilitates recruitment of the ATM kinase and meiotic recombination 11 protein complex to DNA damage foci.

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