MDC1 Monoclonal Antibody

ORDERING INFORMATION

Catalog No.: 12596 (clone P2B11)
Size: 100ug in PBS (1mg/ml), pH 7.4, 50% glycerol, 0.09% sodium azide. Purified by Protein G affinity chromatography.

BACKGROUND

Recent studies have shown that MDC1 (mediator of DNA damage checkpoint protein1) regulates many aspects of DNA damage response pathways, such as intra-S phase checkpoint, G_2/M checkpoint, and radiation-induced apoptosis. Many proteins, such as ATM, BRCA1, and Chk2, interact with MDC1. MDC1 contains several protein-protein interaction domains. MDC1 appears to function as an adaptor protein, recruiting downstream proteins to upstream kinases and facilitating signal transduction following DNA damage.

SPECIFICATION SUMMARY

Antigen: GST-tagged recombinant mouse MDC1 (accession no. NP_001010833.2).
Host Species: Mouse
Antibody Class: IgG1

SPECIFICITY

This antibody recognizes human, mouse, bovine and chimpanzee MDC1. Specific epitope is at the N-terminus of MDC1.

APPLICATIONS

Immunocytochemistry
Immunoblotting: use at 1ug/ml. A band of ~184kDa is detected. Note: There are 4 isoforms of human MDC1 with molecular weights of approximately 227, 198, 196, and 117kDa.
(For more information see Lou et al. 2003, Nature 421: 957-961)
These are recommended concentrations; enduser should determine optimal concentrations for their applications.
Positive control: HeLa cell lysate.

DILUTION INSTRUCTIONS

Dilute in PBS or medium which is identical to that used in the assay system.

STORAGE AND STABILITY

This antibody is stable for at least one (1) year at -20°C. Avoid repeated freeze-thaw cycles.

For in vitro investigational use only. Not intended for diagnostic or therapeutic applications.

QED Bioscience, Inc.
10919 Technology Place, Suite C
San Diego, CA 92127

Toll Free 800.929.2114
Phone 858.675.2405
Fax 858.592.1509
info@qedbio.com