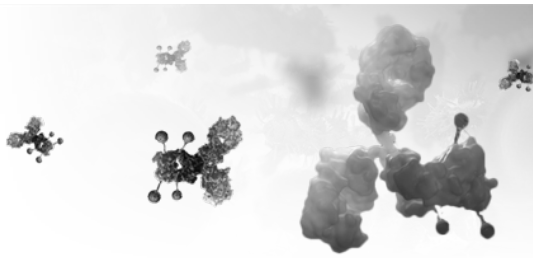

Human MDC1 (phospho T4) blocking peptide (DAG-P0840)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	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. [provided by RefSeq, Jul 2008]
Specificity	Highly expressed in testis.
Purity	70 - 90% by HPLC.
Conjugate	Unconjugated
Applications	BL
Sequence Similarities	Contains 2 BRCT domains.Contains 1 FHA domain.
Format	Liquid
Preservative	None
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

GENE INFORMATION

Gene Name	MDC1 mediator of DNA-damage checkpoint 1 [Homo sapiens (human)]

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Official Symbol	MDC1
Synonyms	MDC1; mediator of DNA-damage checkpoint 1; NFBD1; mediator of DNA damage checkpoint protein 1; nuclear factor with BRCT domains 1; mediator of DNA damage checkpoint 1; homologue to Drosophila photoreceptor protein calphotin;
Entrez Gene ID	9656
mRNA Refseq	NM_014641.2
Protein Refseq	NP_055456.2
UniProt ID	A1Z5I9
Chromosome Location	6p21.3
Pathway	ATM mediated phosphorylation of repair proteins, organism-specific biosystem; ATM mediated response to DNA double-strand break, organism-specific biosystem; DNA Repair, organism-specific biosystem; Double-Strand Break Repair, organism-specific biosystem; Homologous Recombination Repair, organism-specific biosystem; Homologous recombination repair of replication-independent double-strand breaks, organism-specific biosystem; Recruitment of repair and signaling proteins to double-strand breaks, org
Function	FHA domain binding; protein C-terminus binding; protein binding;

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