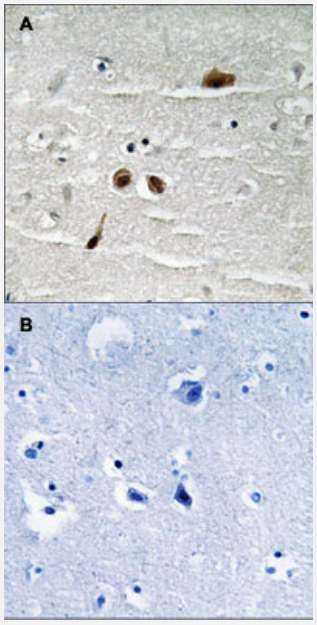
# MDC1 (phospho S513) polyclonal antibody

Catalog # PAB29247 Size 100 uL

## Applications




### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining of human brain tissue by MDC1 (phospho S513) polyclonal antibody (Cat # PAB29247) without blocking peptide (A) or preincubated with blocking peptide (B) under 1:50-1:100 dilution.

## Specification

| | |
|---|---|
| **Product Description** | Rabbit polyclonal antibody raised against synthetic phosphopeptide of human MDC1. |
| **Immunogen** | Synthetic phosphopeptide (conjugated with KLH) corresponding to residues surrounding S513 of human MDC1. |
| **Host** | Rabbit |
| **Theoretical MW (kDa)** | 226 |
| **Reactivity** | Human |
| **Specificity** | This antibody detects endogenous levels of MDC1 only when phosphorylated at serine 513. |
| **Form** | Liquid |

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| | |
|---|---|
| **Purification** | Affinity purification |
| **Recommend Usage** | Immunohistochemistry (1:50-1:100)<br>The optimal working dilution should be determined by the end user. |
| **Storage Buffer** | In PBS, pH 7.4 (without $Mg^{2+}$ and $Ca^{2+}$), (50% glycerol, 0.02% sodium azide) |
| **Storage Instruction** | Store at -20°C.<br>Avoid repeated freezing and thawing. |

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## Gene Info — MDC1

| | |
|---|---|
| **Entrez GeneID** | 9656 |
| **Protein Accession#** | Q14676 |
| **Gene Name** | MDC1 |
| **Gene Alias** | DKFZp781A0122, KIAA0170, MGC166888, NFBD1 |
| **Gene Description** | mediator of DNA damage checkpoint 1 |
| **Omim ID** | 607593 |
| **Gene Ontology** | Hyperlink |
| **Gene Summary** | 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 |
| **Other Designations** | OTTHUMP00000029090\|homologue to Drosophila photoreceptor protein calphotin\|nuclear factor with BRCT domains 1 |

## Disease

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- Abortion
- Adenocarcinoma
- Genetic Predisposition to Disease
- Lupus Erythematosus
- Pancreatic Neoplasms
- Prostate cancer
- Prostatic Neoplasms

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