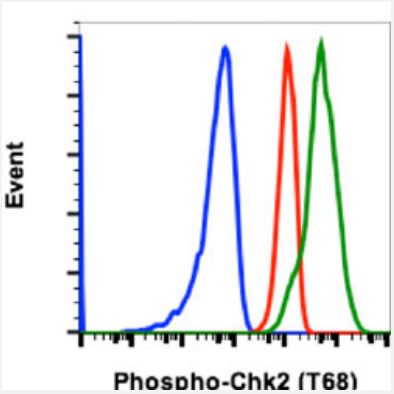
# CHEK2 (phospho T68) monoclonal antibody, clone D12

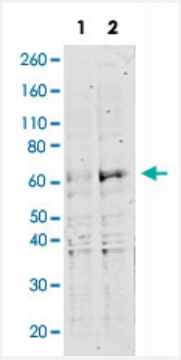
Catalog # MAB18869 Size 200 uL

## Applications




### Flow Cytometry

Flow cytometric analysis of Jurkat cells with CHEK2 (phospho T68) monoclonal antibody, clone D12 (Cat # MAB18869). Secondary antibody only negative control (blue) or untreated (red) or treated with Calyculin A (green).




### Western Blot (Cell lysate)

Western Blot analysis of HEK293 cell lysate with CHEK2 (phospho T68) monoclonal antibody, clone D12 (Cat # MAB18869). Lane 1: untreated or Lane 2: treated with UV.

## Specification

| | |
|---|---|
| **Product Description** | Rabbit monoclonal antibody raised against synthetic phosphopeptide of human CHEK2. |
| **Immunogen** | A synthetic phosphopeptide corresponding to residues surrounding T68 of human CHEK2. |
| **Host** | Rabbit |
| **Reactivity** | Human, Mouse |
| **Form** | Liquid |
| **Purification** | Protein A/G purification |

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|---|---|
| **Isotype** | IgG1, kappa |
| **Recommend Usage** | Flow Cytometry<br>Western Blot<br>The optimal working dilution should be determined by the end user. |
| **Storage Buffer** | In PBS, pH 7.4 (50% glycerol, 0.1% BSA and 0.02% sodium azide). |
| **Storage Instruction** | Store at -20°C. |
| **Note** | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only. |

## Applications

- Flow Cytometry

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- Western Blot (Cell lysate)

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## Gene Info — CHEK2

| | |
|---|---|
| **Entrez GeneID** | 11200 |
| **Gene Name** | CHEK2 |
| **Gene Alias** | CDS1, CHK2, HuCds1, LFS2, PP1425, RAD53 |
| **Gene Description** | CHK2 checkpoint homolog (S. pombe) |
| **Omim ID** | 114480 176807 259500 604373 609265 |
| **Gene Ontology** | Hyperlink |

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| | |
|---|---|
| **Gene Summary** | In response to DNA damage and replication blocks, cell cycle progression is halted through the control of critical cell cycle regulators. The protein encoded by this gene is a cell cycle checkpoint regulator and putative tumor suppressor. It contains a forkhead-associated protein interaction domain essential for activation in response to DNA damage and is rapidly phosphorylated in response to replication blocks and DNA damage. When activated, the encoded protein is known to inhibit CDC25C phosphatase, preventing entry into mitosis, and has been shown to stabilize the tumor suppressor protein p53, leading to cell cycle arrest in G1. In addition, this protein interacts with and phosphorylates BRCA1, allowing BRCA1 to restore survival after DNA damage. Mutations in this gene have been linked with Li-Fraumeni syndrome, a highly penetrant familial cancer phenotype usually associated with inherited mutations in TP53. Also, mutations in this gene are thought to confer a predisposition to sarcomas, breast cancer, and brain tumors. This nuclear protein is a member of the CDS1 subfamily of serine/threonine protein kinases. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq |
| **Other Designations** | OTTHUMP00000028871\|checkpoint-like protein CHK2\|protein kinase CHK2\|serine/threonine-protein kinase CHK2 |

## Pathway

- Cell cycle
- p53 signaling pathway

## Disease

- Adenocarcinoma
- Adenoma
- Ataxia telangiectasia
- Atherosclerosis
- Barrett Esophagus
- Brain Neoplasms
- Breast cancer
- Breast Neoplasms
- Carcinoma
- Cell Transformation
- Colon cancer

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- Colonic Neoplasms
- Colorectal Neoplasms
- DNA Damage
- Endometrial Neoplasms
- Esophageal Neoplasms
- Genetic Predisposition to Disease
- Glioma
- Head and Neck Neoplasms
- Hypertension
- Kidney Diseases
- Kidney Failure
- Kidney Neoplasms
- Laryngeal Neoplasms
- Leukemia
- Lung Neoplasms
- Malignant melanoma
- Melanoma
- Meningeal Neoplasms
- Meningioma
- Mouth Neoplasms
- Neoplasm Invasiveness
- Neoplasm Metastasis
- Neoplasm Recurrence
- Neoplasms
- Neoplastic Syndromes
- Neuroma

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- Ovarian cancer
- Ovarian Neoplasms
- Pancreatic cancer
- Pancreatic Neoplasms
- Pharyngeal Neoplasms
- Prostate cancer
- Prostatic Neoplasms
- Pulmonary Disease
- Skin Neoplasms
- Urinary Bladder Neoplasms
- Werner syndrome

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