

Mouse CHEK2 Monoclonal Antibody | anti-CHEK2 antibody

CHEK2 antibody

CATALOG # AAA106472	HOST Mouse	APPLICATIONS Western Blot, Immunohistochemistry, Immunofluorescence, Flow Cytometry, Functional Assay
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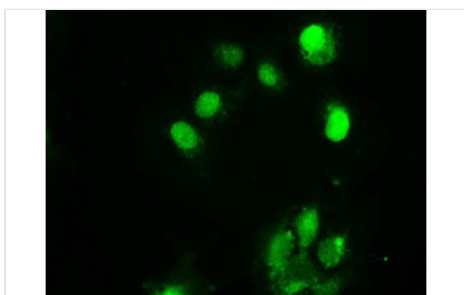
PRODUCT SYNONYMS

CHEK2; Monoclonal Antibody; CHEK2 antibody; Monoclonal CHEK2; Anti-CHEK2; CHK2 checkpoint homolog; CHK2; CDS1; RAD53; HuCds1; PP1425; LFS2; bA444G7; Protein kinase CHK2; Cds1; CHEK 2; CHEK-2; anti-CHEK2 antibody

PRODUCT SPECIFICATIONS

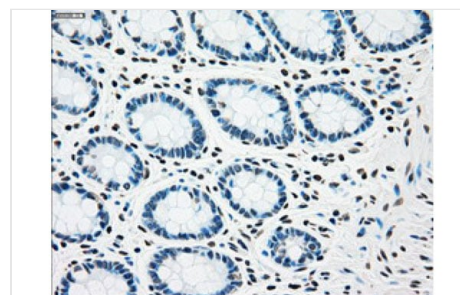
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Clone Number	5C4
Purity/Purification	CHEK2 antibody was purified by affinity chromatography.
Form/Format	Supplied in PBS buffer, pH 7.3, containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration	500 ug-1 mg/ml (varies by lot)
Sequence Length	543
Applicable Applications for anti-CHEK2 antibody	WB (Western Blot), IHC (Immunohistochemistry), IF (Immunofluorescence), FCM/FACS (Flow Cytometry)
Biological Significance	CHEK2 regulates cell cycle checkpoints and apoptosis in response to DNA damage, particularly to DNA double-strandbreaks. CHEK2 also inhibits CDC25C phosphatase by phosphorylation on 'Ser-216', preventing the entry into mitosis. May also play a role in meiosis. It regulates the TP53 tumor suppressor through phosphorylation at 'Thr-18' and 'Ser-20'
Cross-Reactivity	Human, Dog
Immunogen	CHEK2 antibody was raised in mouse using a full length recombinant protein of human CHEK2 (NP_009125) produced in HEK293T cells, as the immunogen.
Preparation and Storage	Store at 4 degree C for short term storage. Aliquot and store at -20 degree C for long term storage. Avoid repeated freeze/thaw cycles.

IMAGES



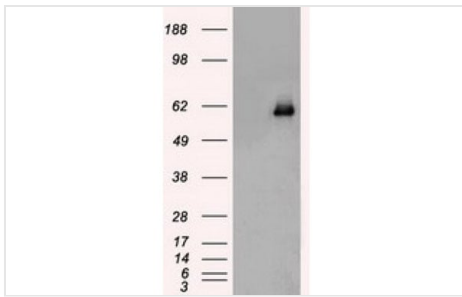
IF (Immunofluorescence)

Immunofluorescent staining of COS7 cells transiently transfected with recombinant CHEK2 protein using CHEK2 antibody



IHC (Immunohistochemistry)

Immunohistochemical analysis of CHEK2 protein in paraffin embedded Human colon tissue using CHEK2 antibody



WB (Western Blot)
Western Blot analysis of HEK293T cell lysates (5 ug) transfected with either recombinant CHEK2 protein (Right) or empty vector (Left) detected with CHEK2 antibody

ADDITIONAL INFORMATION

Related Product Information for anti-CHEK2 antibody	Mouse monoclonal CHEK2 antibody
Product Categories/Family for anti-CHEK2 antibody	DNA & RNA

NCBI AND UNIPROT INFORMATION

NCBI GI #	6005850
NCBI GeneID	11200
NCBI Accession #	NP_009125
NCBI GenBank Nucleotide #	NM_007194.3
UniProt Accession #	O96017; Q6QA03; Q6QA04; Q6QA05; Q6QA06; Q6QA07; Q6QA08; Q6QA10; A8K3Y9; B7ZBF3; B7ZBF4; B7ZBF5
Molecular Weight	36,157 Da
NCBI Official Full Name	serine/threonine-protein kinase Chk2 isoform a
NCBI Official Synonym Full Names	checkpoint kinase 2
NCBI Official Symbol	CHEK2
NCBI Official Synonym Symbols	CDS1; CHK2; LFS2; RAD53; hCds1; HuCds1; PP1425
NCBI Protein Information	serine/threonine-protein kinase Chk2
UniProt Protein Name	Serine/threonine-protein kinase Chk2
UniProt Gene Name	CHEK2
UniProt Synonym Gene Names	CDS1; CHK2; RAD53; Hucds1; hCds1
UniProt Entry Name	CHK2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.