



Anti-CHEK2 monoclonal antibody, clone 3G5 (DCABH-410)

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

PRODUCT INFORMATION

Product Overview	Mouse monoclonal to Chk2
Antigen Description	Regulates cell cycle checkpoints and apoptosis in response to DNA damage, particularly to DNA double-strand breaks. Inhibits CDC25C phosphatase by phosphorylation on Ser-216, preventing the entry into mitosis. May also play a role in meiosis. Regulates the TP53 tumor suppressor through phosphorylation at Thr-18 and Ser-20.
Immunogen	Recombinant full length Human Chk2 protein produced in HEK293T cells (NP_009125).
Isotype	IgG2b
Source/Host	Mouse
Species Reactivity	Rat, Dog, Human, Monkey
Clone	3G5
Purification	This antibody was purified from Mouse ascites fluids by affinity chromatography.
Conjugate	Unconjugated
Applications	WB, Flow Cyt, ICC/IF
Positive Control	HEK293T cell lysate transfected with pCMV6-ENTRY Chk2; COS7 cells transiently transfected by pCMV6-ENTRY Chk2; HT29 cells; HEK293T cells transfected with Chk2 overexpressing plasmid; HeLa, HT29, COS7, MDCK, PC12 and MCF7 cell extracts.
Format	Liquid
Size	100 µl

Buffer	pH: 7.30; Preservative: 0.02% Sodium azide; Constituents: 1% BSA, 50% Glycerol, 48% PBS
Preservative	0.02% Sodium Azide
Storage	store at -20°C. Avoid repeated freeze / thaw cycles.
Ship	Shipped at 4°C.

GENE INFORMATION

Gene Name	CHEK2 checkpoint kinase 2 [Homo sapiens]
Official Symbol	CHEK2
Synonyms	CHEK2; checkpoint kinase 2; CHK2 (checkpoint, S.pombe) homolog , CHK2 checkpoint homolog (S. pombe) , RAD53; serine/threonine-protein kinase Chk2; bA444G7; CDS1; CHK2; HuCds1; PP1425; cds1 homolog; CHK2 checkpoint homolog; checkpoint-like protein CHK2; L
Entrez Gene ID	11200
Protein Refseq	NP_001005735
UniProt ID	O96017
Chromosome Location	22q12.1
Pathway	Cell Cycle, organism-specific biosystem; Cell Cycle Checkpoints, organism-specific biosystem; Cell cycle, organism-specific biosystem; Cell cycle, organism-specific biosystem; Cell cycle, conserved biosystem; FOXM1 transcription factor network, organism-specific biosystem; G1/S DNA Damage Checkpoints, organism-specific biosystem;
Function	ATP binding; metal ion binding; nucleotide binding; protein binding; protein homodimerization activity; protein kinase binding; protein serine/threonine kinase activity; protein serine/threonine kinase activity; protein serine/threonine kinase activity;