



Chk1 (phospho Ser296) rabbit pAb

Cat#: orb767471 (Manual)

For research use only. Not intended for diagnostic use.

Product Name Chk1 (phospho Ser296) rabbit pAb

Host species Rabbit

Applications WB;IHC;IF;ELISA

Species Cross-Reactivity Human; Rat; Mouse;

Recommended dilutions Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA:

1/5000. Not yet tested in other applications.

The antiserum was produced against synthesized peptide derived from **Immunogen**

human Chk1 around the phosphorylation site of Ser296. AA range:266-315

Phospho-Chk1 (S296) Polyclonal Antibody detects endogenous levels of **Specificity**

Chk1 protein only when phosphorylated at S296.

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium

azide..

Store at -20°C. Avoid repeated freeze-thaw cycles. **Storage**

Protein Name Serine/threonine-protein kinase Chk1

Gene Name CHEK1

Cellular localization Nucleus . Chromosome . Cytoplasm . Cytoplasm, cytoskeleton, microtubule

organizing center, centrosome. Nuclear export is mediated at least in part by XPO1/CRM1 (PubMed:12676962). Also localizes to the centrosome specifically during interphase, where it may protect centrosomal CDC2

kinase from inappropriate activation by cytoplasmic CDC25B (PubMed:15311285). Proteolytic cleavage at the C-terminus by SPRTN

promotes removal from chromatin (PubMed:31316063). .





Purification The antibody was affinity-purified from rabbit antiserum by affinity-

epitope-specific immunogen. chromatography using

Polyclonal **Clonality**

Concentration 1 mg/ml

Observed band 45kD

Human Gene ID 1111

Human Swiss-Prot Number O14757

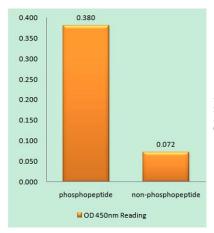
Alternative Names CHEK1; CHK1; Serine/threonine-protein kinase Chk1; CHK1 checkpoint

homolog; Cell cycle checkpoint kinase; Checkpoint kinase-1

The protein encoded by this gene belongs to the Ser/Thr protein kinase **Background**

family. It is required for checkpoint mediated cell cycle arrest in response to DNA damage or the presence of unreplicated DNA. This protein acts to integrate signals from ATM and ATR, two cell cycle proteins involved in DNA damage responses, that also associate with chromatin in meiotic prophase I. Phosphorylation of CDC25A protein phosphatase by this protein is required for cells to delay cell cycle progression in response to double-strand DNA breaks. Several alternatively spliced transcript variants have

been found for this gene. [provided by RefSeq, Oct 2011],

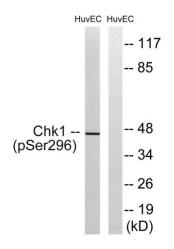


Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using Chkí (Phospho-Ser296) Antibódy





Immunohistochemistry analysis of paraffin-embedded human brain, using Chk1 (Phospho-Ser296) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from HUVEC cells treated with UV 15', using Chk1 (Phospho-Ser296) Antibody. The lane on the right is blocked with the phospho peptide.