

Product datasheet for AP20930PU-N

Chk1 (CHEK1) pSer317 Rabbit Polyclonal Antibody

Product data:

OriGene Technologies, Inc.

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Product Type:	Primary Antibodies
Applications:	IHC
Recommended Dilution:	Immunohistochemistry on Paraffin Sections: 1/50-1/200.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Specificity:	This antibody detects endogenous levels of Chk1 protein only when phosphorylated at Serine 317.
Formulation:	PBS, pH~7.2 containing 0.05% Sodium Azide as preservative. State: Aff - Purified State: Liquid purified Ig fraction (> 95% pure by SDS-PAGE).
Concentration:	1.0 mg/ml
Purification:	Affinity Chromatography using epitope-specific immunogen.
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	checkpoint kinase 1
Database Link:	<u>Entrez Gene 12649 MouseEntrez Gene 140583 RatEntrez Gene 1111 Human</u> <u>O14757</u>



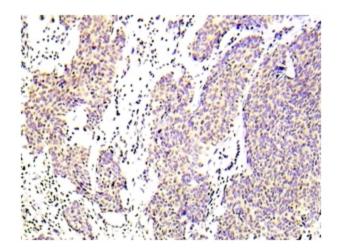
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Background:Cell cycle events are regulated by the sequential activation and deactivation of cyclin
dependent kinases (Cdks) and by proteolysis of cyclins. Chk1 and Chk2 are involved in these
processes as regulators of Cdks. Chk1 and Chk2 both function as essential components in the
G2 DNA damage checkpoint by phosphorylating Cdc25C in response to DNA damage.
Phosphorylation inhibits Cdc25C activity, thereby blocking mitosis. Cdc25A, Cdc25B and
Cdc25C protein tyrosine phosphatases function as mitotic activators by dephosphorylating
Cdc2 p34 on regulatory tyrosine residues. It has also been shown that Chk1 can
phosphorylate Wee 1 in vitro, providing evidence that the hyperphosphorylated form of Wee
1, seen in cells delayed by Chk1 overexpression, is due to phosphorylation by Chk1. Chk1 is
phosphorylated on Serine 345 (S345) in response to UV, IR and hydroxyurea (HU). Chk1 plays
an essential role in the mammalian DNA damage checkpoint, embryonic development and
tumor suppression.

Synonyms:CHEK1, CHEK-1Protein Families:Druggable Genome, Protein Kinase, Stem cell - PluripotencyProtein Pathways:Cell cycle, p53 signaling pathway

Product images:



Immunohistochemistry analyzes of CHK1 antibody (pSer317) in paraffin-embedded Human lung adenocarcinoma tissue.

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