

Product datasheet for AP01553PU-N

Chk1 (CHEK1) pSer317 Rabbit Polyclonal Antibody

Product data:

Product Type: Primary Antibodies IHC, WB **Applications:** Recommended Dilution: Western Blot: 1/500-1/1000. Immunohistochemistry on Paraffin Sections: 1/50-1/200. **Reactivity:** Human, Mouse, Rat Host: Rabbit **Clonality:** Polyclonal Synthetic phosphopeptide derived from human Chk1 around the phosphorylation site of Immunogen: Serine 317. Specificity: This antibody detects endogenous levels of CHK1 protein when phosphorylated at Serine 317. Formulation: PBS, pH~7.2 State: Aff - Purified State: Liquid purified Ig fraction Preservative: 0.05% Sodium Azide **Concentration:** 1.0 mg/ml **Purification:** Affinity Chromatography using epitope-specific immunogen **Conjugation:** Unconjugated Storage: Store 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. Predicted Protein Size: ~ 56 kDa Gene Name: checkpoint kinase 1 Database Link: Entrez Gene 1111 Human 014757



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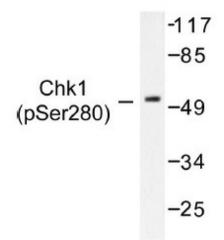
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GRIGENE Chk1 (CHEK1) pSer317 Rabbit Polyclonal Antibody – AP01553PU-N

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-1

Product images:



Western blot (WB) analysis of p-Chk1 (pSer317) antibody Cat.-No.: AP01553PU-N in extracts from MCF7 cells.

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