

Product datasheet for AP20357PU-N

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Chk1 (CHEK1) Rabbit Polyclonal Antibody

Product data:

Product Type: Primary Antibodies

Applications: IF, IHC, WB

Recommended Dilution: Western blot: 1/500-1/1000.

Immunohistochemistry on paraffin sections: 1/50-1/200.

Immunofluorescence: 1/50-1/200.

Reactivity: Human

Host: Rabbit

Clonality: Polyclonal

Specificity: This antibody detects endogenous levels of Chk1 protein.

Formulation: Phosphate buffered saline (PBS) with 0.05% sodium azide, approx. pH 7.2

State: Aff - Purified

State: Liquid purified Ig fraction

Concentration: 1.0 mg/ml

Purification: Affinity-chromatography using epitope-specific immunogen; purity is > 95% (by SDS-PAGE)

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

O14757



Background:

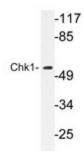
Cell cycle events are regulated by the sequential activation and deactivation of cyclin dependent kinases (Cdks) and by proteolysis of cyclins. Chk1 and Chk2 are involved in these processes as regulators of Cdks. Chk1 and Chk2 both function as essential components in the G2 DNA damage checkpoint by phosphorylating 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 Wee1 in vitro, providing evidence that the hyperphosphorylated form of Wee1, seen in cells delayed by Chk1 overexpression, is due tophosphorylation by Chk1.

Synonyms: CHEK1, CHEK-1

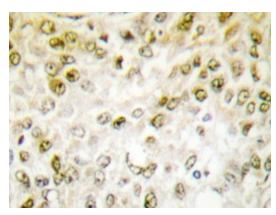
Protein Families: Druggable Genome, Protein Kinase, Stem cell - Pluripotency

Protein Pathways: Cell cycle, p53 signaling pathway

Product images:



Western blot analysis of Chk1 antibody (Cat.-No.: AP20357PU-N) in extracts from Raw264.7 cells.



Immunohistochemistry analyzes of Chk1 antibody (Cat.-No.: AP20357PU-N) in paraffinembedded human breast carcinoma tissue.