

AP21020PU-N**Polyclonal Antibody to CHK2 - Aff - Purified****Alternate names:**

CHEK-2, CHEK2, CHK-2, CHK2 checkpoint homolog, Cds1, RAD53, Serine/threonine-protein kinase Chk2

Quantity:

0.1 mg

Concentration:

1,0 mg/ml

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 to phosphorylation by Chk1.

Uniprot ID:

[O96017](#)

NCBI:

[NP_001005735](#)

GenElD:

[11200](#)

Host:

Rabbit

Format:

State: Liquid purified Ig fraction

Purification: Affinity chromatography (> 95% (by SDS-PAGE)

Buffer System: Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.2.

Applications:

Western Blot: 1/500 - 1/1000.

Immunohistochemistry: 1/50 - 1/200.

Immunofluorescence: 1/50 - 1/200.

Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity:

CHK2 pAb detects endogenous levels of CHK2 protein.

Species: Human, Mouse, Rat.

Other species not tested.

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.

Shelf life: one year from despatch.

Pictures:

Immunohistochemistry (IHC) analyzes of CHK2 pAb in paraffin-embedded human lung adenocarcinoma tissue.

