

Product datasheet for AP01555PU-N

Chk2 (CHEK2) pSer516 Rabbit Polyclonal Antibody

Product data:

OriGene Technologies, Inc.

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Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	Western Blot: 1/500-1/1000.
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Specificity:	p-Chk2 (pSer516) antibody detects endogenous levels of p-Chk2 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
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.
Predicted Protein Size:	~ 62 kDa
Gene Name:	checkpoint kinase 2
Database Link:	<u>Entrez Gene 11200 Human</u> <u>O96017</u>



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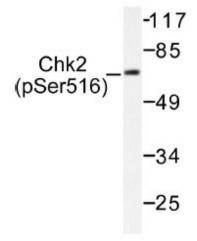
GRIGENE Chk2 (CHEK2) pSer516 Rabbit Polyclonal Antibody – AP01555PU-N

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 Wee1 in vitro, providing evidence that the hyper-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:

CHEK2, CHEK-2, CHK-2, RAD53, Cds1

Product images:



Western blot (WB) analysis of p-Chk2 (pSer516) antibody Cat.-No.: AP01555PU-N in extracts from HeLa cells treated with UV

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