USA: proteintech@ptglab.com

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Chk2 Polyclonal Antibody

Catalog number: 13954-1-AP

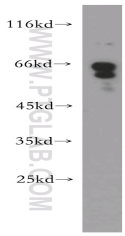
Size: 34 µg/150 µl

Source: Rabbit

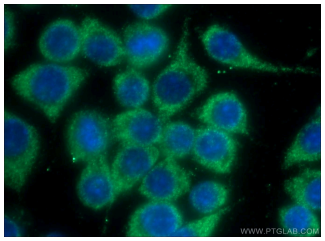
Isotype: IgG

Synonyms:

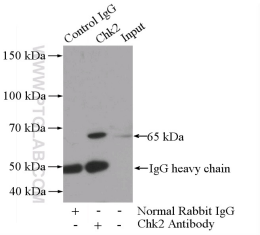
CHEK2; CDS1, CHEK2, Chk2, HuCds1, LFS2, PP1425, RAD53



Jurkat cells were subjected to SDS PAGE followed by western blot with 13954-1-AP(CHEK2 antibody) at dilution of 1:500



Immunofluorescent analysis of (-20℃ Ethanol) fixed RAW 264.7 cells using 13954-1-AP(CHEK2 Antibody) at dilution of 1:50 and Alexa Fluor 488-congugated AffiniPure Goat Anti-Rabbit IgG(H+L)



IP Result of anti-CHEK2 (IP:13954-1-AP, 4ug; Detection:13954-1-AP 1:500) with HL-60 cells lysate 1600ug.

Background

Chk2(Checkpoint kinase 2) is also named as CDS1, CHEK2, RAD53 and belongs to the CHK2 subfamily. It is a protein kinase that is activated in response to DNA damage and involved in cell cycle arrest. It also mediates the induction of senescence in fibroblasts, but is dispensable for the induction of telomere dysfunction checkpoints at the stem and progenitor cell level(PMID:20577265). This protein can exsit as a dimer (PMID:19782031). Active forms of CHEK2 devoid of phosphorylation at Thr-68 can form unstable dimers(PMID:12386164). Defects in CHEK2 is a cause of susceptibility to breast cancer (BC)(PMID:21618645). It has 12 isoforms produced by alternative splicing.

Applications

Tested applications:	**ELISA, WB, IP, IF**
Cited applications:	**WB**
Species specificity:	**Human,Mouse,Rat; other species not tested.**
Cited species:	**Human**
Caculated Chk2 MW:	**61 kDa**
Observed Chk2 MW:	**65 kDa**
Positive WB detected in	**Jurkat cells, HL-60 cells**
Positive IP detected in	**HL-60 cells**
Positive IF detected in	**RAW 264.7 cells**
Recommended dilution:	**WB: 1:200-1:2000**
	IP: 1:200-1:2000
	IF: 1:20-1:200

Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

Immunogen information

Immunogen:	**Ag5065**
GenBank accession number:	**BC004207**
Gene ID (NCBI):	**11200**
Full name:	**CHK2 checkpoint homolog (S. pombe)**

Product information

Purification method:	**Antigen affinity purification**
Storage:	**PBS with 0.02% sodium azide and 50% glycerol pH 7.3. Store at -20°C.**