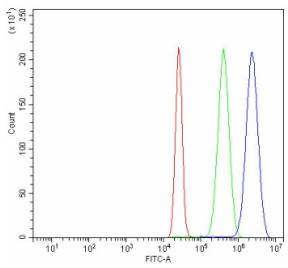
CHK1 Antibody / Checkpoint kinase 1 (R32638)

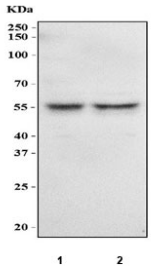
Catalog No.	Formulation	Size
R32638	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	O14757
Applications	Western Blot : 0.5-1ug/ml Flow Cytometry : 1-3ug/million cells
Limitations	This CHK1 antibody is available for research use only.



Flow cytometry testing of fixed and permeabilized human K562 cells with CHK1 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= CHK1 antibody.



Western blot testing of human 1) 293T and 2) K562 cell lysate with CHK1 antibody at 0.5ug/ml. Predicted molecular weight ~54 kDa.

Description

CHEK1, Cell cycle checkpoint kinase, is an enzyme that in humans is encoded by the CHEK1 gene. By fluorescence in situ hybridization, the human CHEK1 gene is mapped to 11q24, near the ATM gene at 11q23. CHEK1 is a kinase that phosphorylates cdc25, an important phosphatase in cell cycle control, particularly for entry into mitosis. Furthermore, CHEK1 acts to integrate signals from ATM and ATR, and is involved in monitoring meiotic recombination, a process that involves programmed DNA breaks.

Application Notes

Optimal dilution of the CHK1 antibody should be determined by the researcher.

Immunogen

Amino acids M1-Q210 from the human protein were used as the immunogen for the CHK1 antibody.

Storage

After reconstitution, the CHK1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.