

AlphaScreen® SureFire® phospho-Chk1 (Ser345) Kit

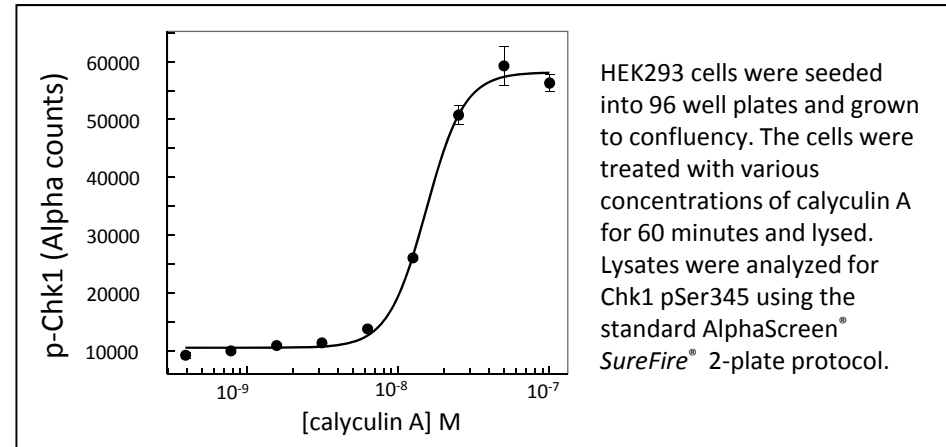
Catalog #

TGRCHK1S500

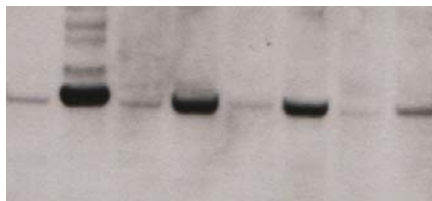
TGRCHK1S10K

TGRCHK1S50K

Chk1 plays an essential role in the mammalian DNA damage checkpoint, embryonic development, and tumor suppression, acting downstream of ATM/ATR kinase. Activation of Chk1 involves phosphorylation of Ser345 in response to blocked DNA replication and particular forms of stress. Activated Chk1 can phosphorylate and inactivate cdc25C, blocking the activation of cdc2 and transition into mitosis.

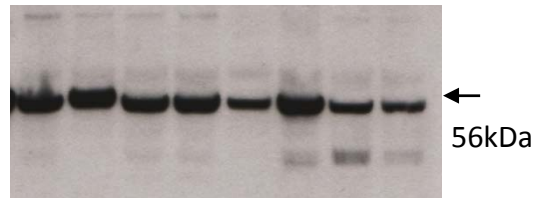


A

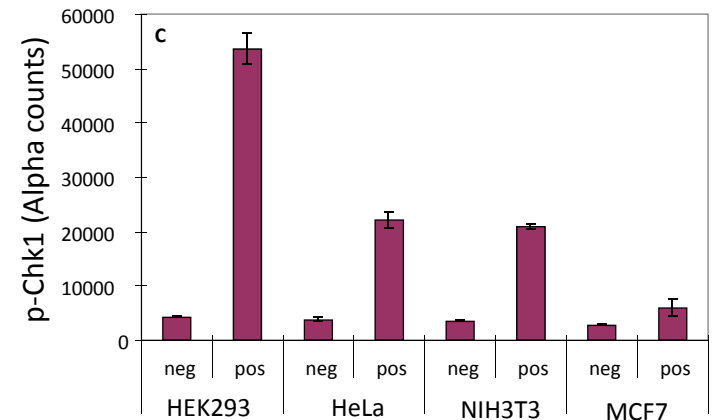


- + - + - + - +
Hek293 HeLa NIH3T3 MCF7

B



- + - + - + - +
Hek293 HeLa NIH3T3 MCF7



Lysates from several cell lines were analysed by for Chk1 pSer345 by Western blot (A) and SureFire® (C), and total Chk1 (B). Negative lysates were prepared by treatment with Nocodazol for 18 hours, and positive lysates were prepared by treatment with calyculin A for 1 hour. SureFire® data broadly correlates well with signal intensity observed in the phospho Western blot.