

Phospho-Chk2 (Thr68) (Clone: D12) rabbit mAb

Clonality :	Monoclonal
Clone Name :	Chk2T68-D12
Application :	FACS, WB
Reactivity :	Human
Conjugate :	Unconjugated
Format :	Purified
Alternative Name :	Serine/threonine-protein kinase Chk2, Cds1 homolog, Hucds2, CHEK2, RAD53
Isotype :	Rabbit IgG1k

Description

Checkpoint kinase 2 (Chk2) plays a major role in the checkpoint response to DNA damage. Chk2 is initially inactive in its monomeric, unphosphorylated form. Phosphorylation at Thr68 induces homodimerization, initiating autophosphorylation within the kinase loop at Ser516 and phosphorylation events within the auto-inhibitory loop at Thr383 and Thr387. After these phosphorylations, active dimers and monomers can then phosphorylate substrates such as Cdc25C and BRCA1. In humans, Chk2 genetic deletion and missense variants have been found to be associated with increased risk of breast and colon cancer. Constitutively phosphorylated Chk2 at Thr68 has been found in many human cancer cell lines, especially ones with mutations in p53.

Product Info

Amount :	200 l μ l
Content :	1X PBS, 0.02% NaN ₃ , 50% Glycerol, 0.1% BSA
Storage condition :	Store at -20°C. Avoid repeated freeze and thaw cycles.

Application Note

1 μ g/mL - 0.001 μ g/mL. It is recommended that the reagent be titrated for optimal performance for each application. See product image legends for additional information.(0.5mg/ml)



