

Human Phospho-Chk2 (T68) Antibody

Antigen Affinity-purified Polyclonal Rabbit IgG Catalog Number: AF1626

DESCRIPTION			
Species Reactivity	Human		
Specificity	Detects human Chk2 when phosphorylated at T68.		
Source	Polyclonal Rabbit IgG		
Purification	Antigen Affinity-purified		
Immunogen	Phosphopeptide containing human Chk2 T68 site		
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.		

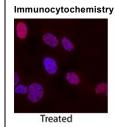
APPLICATIONS

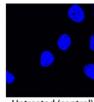
Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Western Blot	0.5 μg/mL	See Below
Immunocytochemistry	5-15 μg/mL	See Below

DATA

Detection of Human Phospho-Chk2 (T68) by Western Blot. Western blot shows lysates of HeLa human cervical epithelial carcinoma cell line untreated (-) or treated (+) with 1 µM camptothecin (CPT) for 1 hour. PVDF membrane was probed with 0.5 µg/mL Rabbit Anti-Human Phospho-Chk2 (T68) Antigen Affinitypurified Polyclonal Antibody (Catalog # AF1626) followed by HRP-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog # HAF008). A specific band for Phospho-Chk2 (T68) was detected at approximately 64 kDa (as indicated). The phospho-specificity of this antibody was supported by decreased labeling following treatment with 600 U λ phosphatase (λ-PPase) for 60 minutes. This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.





Untreated (control)

Phospho-Chk2 (T68) in HepG2 Human Cell Line. Phopsho-Chk2 (T68) was detected in immersion fixed HepG2 human hepatocellular carcinoma cell line treated with 1 µM camptothecin using Rabbit . Anti-Human Phospho-Chk2 (T68) Antigen Affinity-purified Polyclonal Antibody (Catalog # AF1626) at 1 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557conjugated Anti-Rabbit IgG Secondary Antibody (red; Catalog # NL004) and counterstained with DAPI (blue). Specific staining was localized to nuclei in treated cells. View our protocol for Fluorescent ICC Staining of Cells on Coverslips.

PREPARATION AND STORAGE

Reconstitution Reconstitute at 0.2 mg/mL in sterile PBS

Shipping The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

ATM phosphorylates the Checkpoint kinase on T68 in response to genotoxic insults. Phosphorylation of T68 promotes the formation of Chk2 oligomers.

Oligomerization is a critical event in the activation of the Chk2 kinase as it is required for phosphorylation of additional Chk2 residues that lead to full activation and signaling to downstream effectors.

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