

Phospho-CHK2 (Thr387) Recombinant Rabbit Monoclonal Antibody (45H21L9)

Product Details	
Size	100 µg
Species Reactivity	Human
Host/Isotype	Rabbit / IgG
Expression system	Expi293
Class	Recombinant Monoclonal
Type	Antibody
Clone	45H21L9
Conjugate	Unconjugated
Immunogen	Peptide corresponding to Human CHEK2 (aa 386-392)
Form	Liquid
Concentration	0.5 mg/mL
Purification	Protein A
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_2609852

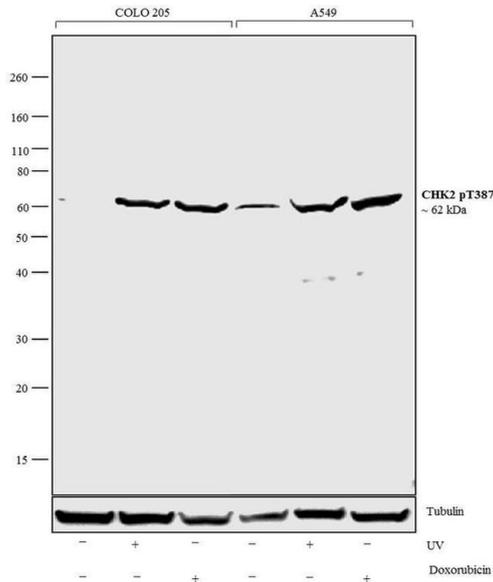
Applications	Tested Dilution	Publications
Western Blot (WB)	1- 2 µg/mL	-
Immunocytochemistry (ICC/IF)	2 µg/mL	-

Product Specific Information

This antibody is predicted to react with Monkey.

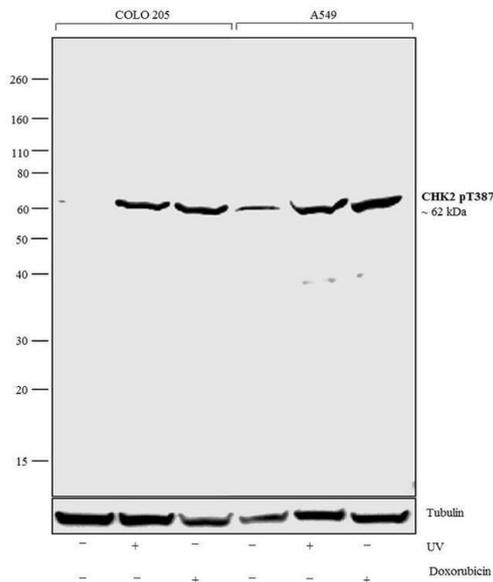
Recombinant rabbit monoclonal antibodies are produced using in vitro expression systems. The expression systems are developed by cloning in the specific antibody DNA sequences from immunoreactive rabbits. Then, individual clones are screened to select the best candidates for production. The advantages of using recombinant rabbit monoclonal antibodies include: better specificity and sensitivity, lot-to-lot consistency, animal origin-free formulations, and broader immunoreactivity to diverse targets due to larger rabbit immune repertoire.

Product Images For Phospho-CHK2 (Thr387) Recombinant Rabbit Monoclonal Antibody (45H21L9)



Phospho-CHK2 (Thr387) Antibody (701720)

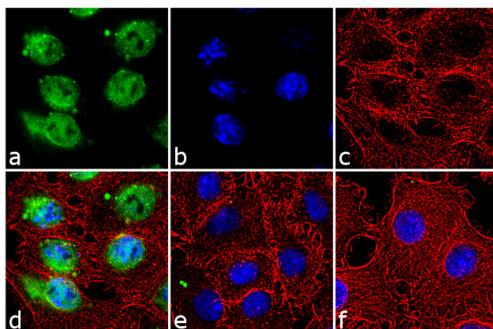
Altered expression of proteins upon cell treatment demonstrates antibody specificity. Western blot analysis using Phospho-CHK2 pThr387 Antibody (45H21L9), Recombinant Rabbit Monoclonal (Product # 701720) shows increased expression of Phospho-CHK2 pThr387 in COLO205 and A549 cell lines upon treatment with UV and doxorubicin. {TM}



Phospho-CHK2 (Thr387) Antibody (701720) in WB

Western blot analysis was performed on whole cell extracts (30 µg lysate) of COLO 205 (Lane 1), COLO 205 treated with UV (For 40 min) (Lane 2), COLO 205 treated with Doxorubicin (500 nM for 3 hours) (Lane 3), A549 (Lane 4), A549 treated with UV (For 40 min) (Lane 5), A549 treated Doxorubicin (500 nM for 3 hours) (Lane 6). The blots were probed with Anti-CHK2 (pT387) Recombinant Rabbit Monoclonal Antibody (Product # 701720, 1-2 µg/mL) and detected by chemiluminescence using Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Secondary Antibody, HRP conjugate (Product # A27036, 0.4 µg/mL, 1:2500 dilution). A 62 kDa band corresponding to CHK2 (pT387) was observed according to the treatment. Known quantity of protein samples were electrophoresed using Novex® NuPAGE® 10% Bis-Tris gel (Product # NP0301BOX), XCell SureLock™ Electrophoresis System (Product # EI0002) and Novex® Sharp Pre-Stained Protein Standard (Product # LC5800). Resolved proteins were then transferred onto a nitrocellulose membrane with iBlot® Dry Blotting System (Product # IB21001). The membrane was probed with the relevant primary and secondary Antibody following blocking with 5% skimmed milk. Chemiluminescent detection was performed using Pierce™ ECL Western blotting Substrate (Product # 32106).

Phospho-CHK2 (Thr387) Antibody (701720) in ICC/IF



Immunofluorescence was performed on fixed and permeabilized HeLa cells treated with UV (302nM) for 60 minutes for detection of CHK2 (pT387) using Anti-CHK2 (pT387) Recombinant Rabbit Monoclonal Antibody (Product # 701720, 2 µg/mL) and labeled with Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A27034, 1:2000). Panel a) shows representative cells that were stained for detection and localization of CHK2 (pT387) protein (green), Panel b) is stained for nuclei (blue) using SlowFade® Gold Antifade Mountant with DAPI (Product # S36938). Panel c) represents cytoskeletal F-actin staining using Alexa Fluor® 555 Rhodamine Phalloidin (Product # R415, 1:300). Panel d) is a composite image of Panels a, b and c clearly demonstrating nuclear localization of CHK2 (pT387). Panel e) represents merged image of untreated cells with no signal. Panel f) represents control cells with no primary antibody to assess background.

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