Phospho-p38 MAPK (Thr180, Tyr182) Polyclonal Antibody

Product Details	
Size	100 µL
Species Reactivity	Human, Rat
Published Species	Human, Mouse
Host/Isotope	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	The antiserum was produced against a chemically synthesized phosphopeptide derived from the region of human p38 that contains threonine 180 and tyrosine 182. This region is conserved among many species including mouse, rat, dog, monkey and carp.
Form	Liquid
Purification	Antigen affinity chromatography
Storage buffer	Dulbecco's PBS, pH 7.3, with 1mg/mL BSA, 50% glycerol
Contains	0.05% sodium azide
Storage Conditions	-20°C
RRID	AB_2533721

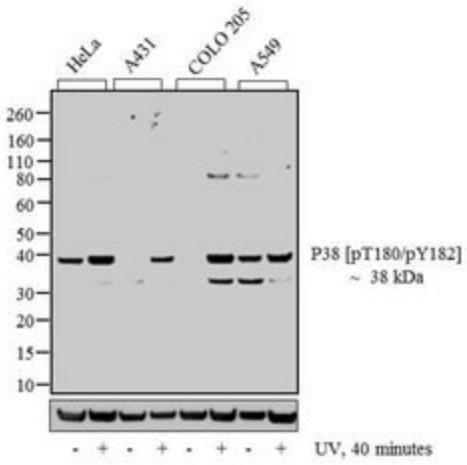
Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	3-5 µg/1x10^6 cells	-
Immunocytochemistry (ICC)	1 µg/mL	1 Publication
Immunofluorescence (IF)	1 µg/mL	1 Publication
Immunohistochemistry (Paraffin) (IHC (P))	1:10-1:100	1 Publication
Western Blot (WB)	1:1000	21 Publications
Immunohistochemistry (IHC)	-	1 Publication
Immunoprecipitation (IP)	-	1 Publication
Miscellaneous PubMed (Misc)	-	1 Publication

Product Specific Information

This antibody reacts with human and rat (100% homologous) p38 alpha, beta, and gamma. HEK 293 cells +/- UV irradiation treatment and PC12 cells +/- Sorbitol were used as positive controls.

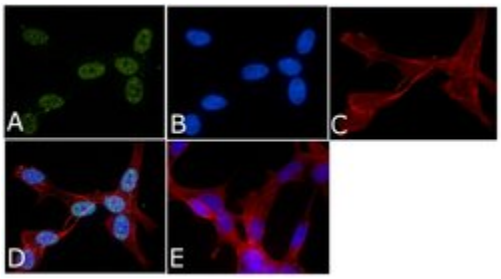
Purified from rabbit serum by sequential epitope-specific chromatography, this product contains enough material for 10 mini-blots. The antibody has been negatively preadsorbed using a non-phosphopeptide corresponding to the site of phosphorylation to remove antibody that is reactive with non-phosphorylated p38. The final product is generated by affinity chromatography using a p38-derived peptide that is phosphorylated at threonine 180 and tyrosine 182.

Advanced Verification Data

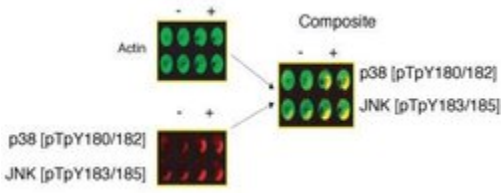


Phospho-p38 MAPK (Thr180, Tyr182) Antibody (44-684G)
Altered expression of proteins upon cell treatment demonstrates antibody specificity. Western blot of Phospho-P38 pThr180 / pTyr182 using Anti -p38[pT180/pY182] Rabbit polyclonal Antibody (Product # 44-684G), shows increased expression of Phospho-P38 pThr180 / pTyr182 upon treatment with UV in HeLa, A431, COLO 205 and A549 cell lines. Cell treatment validation info.

Product Images For Phospho-p38 MAPK (Thr180, Tyr182) Polyclonal Antibody



Phospho-p38 MAPK (Thr180, Tyr182) Antibody (44-684G) in IF
Immunofluorescent analysis of Phospho-P38 pThr180/pTyr182 Antibody was done on 70% confluent log phase SHSY5Y cells. The cells were fixed with 4% paraformaldehyde for 15 minutes, permeabilized with 0.25% Triton™ X-100 for 10 minutes, and blocked with 5% BSA for 1 hour at room temperature. The cells were labeled with Phospho-P38 pThr180/pTyr182 Antibody (Product # 44-684G) at 1µg /mL in 1% BSA and incubated for 3 hours at room temperature and then labeled with Alexa Fluor 488 Goat Anti-Rabbit IgG Secondary Antibody (Product # A-11008) at a dilution of 1:400 for 45 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with SlowFade® Gold Antifade Mountant with DAPI (Product # S36938). F-actin (Panel c: red) was stained with Alexa Fluor 594 Phalloidin (Product # A12381). Panel d is a merged image showing nuclear localization. Panel e is a no primary antibody control. The images were captured at 40X magnification.



Phospho-p38 MAPK (Thr180, Tyr182) Antibody (44-684G) in IF
p38 (pTpY180/182) phosphospecific antibody. RAW cells were untreated (-) or treated (+) with Anisomycin. Two-color In-Cell Western was performed on the LI-COR Odyssey® Infrared Imaging System using actin, p38 (pTpY180/182) (Product # 44-684G), and JNK1/2 (pTpY183/185) (Product # 44-682G) antibodies. Two spectrally distinct dyes were used to detect actin (green, 800 nm channel), p38 (pTpY180/182) or JNK1/2 (pTpY183/185) (red, 700 nm channel), or a composite of both (yellow).

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27 References

Western Blot (21)

Cellular oncology (Dordrecht)

Hypo-phosphorylated CD147 promotes migration and invasion of hepatocellular carcinoma cells and predicts a poor prognosis.

"44-684G was used in Western Blotting to determine the role of deregulation of CD147 phosphorylation during cancer progression."

Authors: Jin J,Wang SJ,Cui J,Li L,Li JY,Liu FL,Sun XX,Jiang JL,Cui HY,Chen ZN

Species
Human

Dilution
Not Cited

Year
2019

Differentiation; research in biological diversity

RAR2-dependent signaling represses neuronal differentiation in mouse ES cells.

"44-684G was used in Western Blotting to study the role played by specific retinoic acid receptor types on embryonic stem cell differentiation."

Authors: Kona SL,Shrestha A,Yi X,Joseph S,Barona HM,Martinez-Ceballos E

Species
Mouse

Dilution
1:1,000

Year
2018

View more WB references on thermofisher.com

Immunocytochemistry (1)

Autophagy

MAPK14/p38-dependent modulation of glucose metabolism affects ROS levels and autophagy during starvation.

"44-684G was used in immunocytochemistry and western blot to investigate MAPK14-driven metabolic reprogramming"

Authors: Desideri E,Vegliante R,Cardaci S,Nepravishta R,Paci M,Ciriolo MR

Species
Human
Not Applicable

Dilution
Not Cited
Not Cited

Year
2014

Immunofluorescence (1)

Autophagy

MAPK14/p38-dependent modulation of glucose metabolism affects ROS levels and autophagy during starvation.

"44-684G was used in immunocytochemistry and western blot to investigate MAPK14-driven metabolic reprogramming"

Authors: Desideri E,Vegliante R,Cardaci S,Nepravishta R,Paci M,Ciriolo MR

Species
Human
Not Applicable

Dilution
Not Cited
Not Cited

Year
2014

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IP (1) Misc (1) IHC (P) (1) IHC (1)