

p38 MAPK beta Monoclonal Antibody (P38-11A5)

Product Details	
Size	100 µg
Species Reactivity	Human, Mouse
Published Species	Rabbit, Human, Mouse
Host/Isotope	Mouse / IgG1/IgG2a
Class	Monoclonal
Type	Antibody
Clone	P38-11A5
Conjugate	Unconjugated
Immunogen	Recombinant, full-length human p38 beta-2; the product of the p38-beta gene
Form	Liquid
Concentration	0.5 mg/mL
Purification	Protein A
Storage buffer	PBS, pH 7.4
Contains	0.1% sodium azide
Storage Conditions	-20°C
RRID	AB_2533144

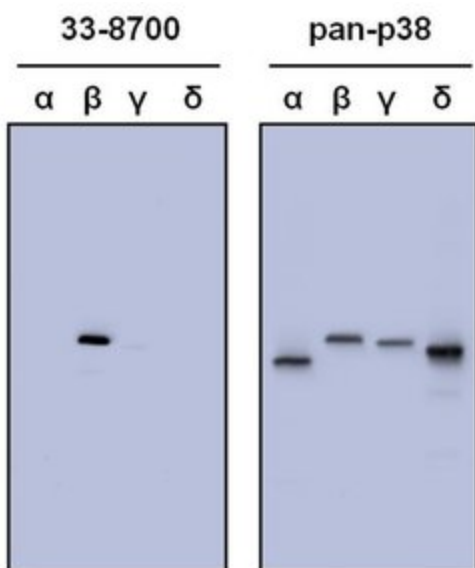
Applications	Tested Dilution	Publications
ELISA (ELISA)	Assay Dependent	-
Immunocytochemistry (ICC)	1 µg/mL	-
Immunofluorescence (IF)	1 µg/mL	-
Immunohistochemistry (Paraffin) (IHC (P))	1:10-1:100	-
Immunoprecipitation (IP)	Assay Dependent	3 Publications
Western Blot (WB)	Assay Dependent	10 Publications
Miscellaneous PubMed (Misc)	-	1 Publication

Product Specific Information

33-8700 has been successfully used in immunofluorescence and western blot.

33-8700 specifically recognizes the beta isoform of p38, with slight reactivity to p38-gamma.

Advanced Verification Data



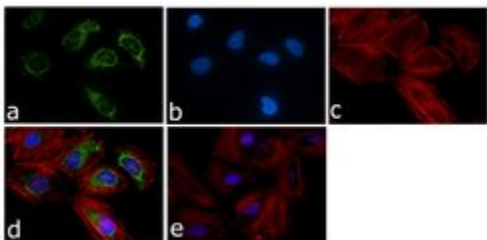
p38 MAPK beta Antibody (33-8700)

Antibody specificity is demonstrated by a recombinant protein array. Western blotting of recombinant human p38-alpha, beta, gamma and delta proteins using p38 MAPK beta Monoclonal Antibody (Product # 33-8700) shows specific detection of p38 MAPK beta, and not the other isoforms which can be detected using an independent pan-p38 antibody. Peptide array validation info.

Product Images For p38 MAPK beta Monoclonal Antibody (P38-11A5)

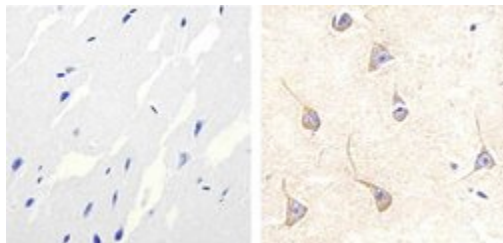
p38 MAPK beta Antibody (33-8700) in IF

Immunofluorescent analysis of p38-beta 2 MAPK Antibody (P38-11A5) was done on 70% confluent log phase HeLa 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 p38-beta 2 MAPK Antibody (P38-11A5) (Product # 33-8700) at 1µg/mL in 1% BSA and incubated for 3 hours at room temperature and then labeled with Alexa Fluor 488 Rabbit Anti-Mouse IgG Secondary Antibody (Product # A-11059) 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 cytoplasmic localization. Panel e is a no primary antibody control. The images were captured at 40X magnification.



p38 MAPK beta Antibody (33-8700) in IHC (P)

Immunohistochemistry analysis of p38-beta2 MAPK showing staining in the cytoplasm and nucleus of paraffin-embedded human brain tissue (right) compared to a negative control without primary antibody (left). To expose target proteins, antigen retrieval was performed using 10mM sodium citrate (pH 6.0), microwaved for 8-15 min. Following antigen retrieval, tissues were blocked in 3% H2O2-methanol for 15 min at room temperature, washed with ddH2O and PBS, and then probed with a p38-beta2 MAPK monoclonal antibody (Product # 33-8700) diluted in 3% BSA-PBS at a dilution of 1:20 overnight at 4°C in a humidified chamber. Tissues were washed extensively in PBST and detection was performed using an HRP-conjugated secondary antibody followed by colorimetric detection using a DAB kit. Tissues were counterstained with hematoxylin and dehydrated with ethanol and xylene to prep for mounting.



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14 References

Western Blot (10)

Cell research

Suppression of MAPK11 or HIPK3 reduces mutant Huntingtin levels in Huntington's disease models.

"33-8700 was used in Western Blotting to reveal the kinases MAPK11 and HIPK3 as novel modulators of mutant Huntingtin protein levels, and confirm their therapeutic potentials in Huntington disease knockin mouse models."

Authors: Yu M,Fu Y,Liang Y,Song H,Yao Y,Wu P,Yao Y,Pan Y,Wen X,Ma L,Hexige S,Ding Y,Luo S,Lu B

Species

Human
Mouse
Not Applicable

Dilution

Not Cited
Not Cited
Not Cited

Year

2017

The Journal of biological chemistry

Loss of Functionally Redundant p38 Isoforms in T Cells Enhances Regulatory T Cell Induction.

"338700 was used in western blot to assess the role of p38 signaling in limiting regulatory T cell induction"

Authors: Hayakawa M,Hayakawa H,Petrova T,Ritprajak P,Sutavani RV,Jiménez-Andrade GY,Sano Y,Choo MK,Seavitt J,Venigalla RK,Otsu K,Georgopoulos K,Arthur JS,Park JM

Species

Mouse

Dilution

Not Cited

Year

2017

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Immunoprecipitation (3)

Proceedings of the National Academy of Sciences of the United States of America

p38 and p38 kinases regulate the Toll-like receptor 4 (TLR4)-induced cytokine production by controlling ERK1/2 protein kinase pathway activation.

Authors: Risco A,del Fresno C,Mambol A,Alsina-Beauchamp D,MacKenzie KF,Yang HT,Barber DF,Morcelle C,Arthur JS,Ley SC,Ardavin C,Cuenda A

Species

Mouse

Dilution

Not Cited

Year

2012

Arthritis research and therapy

Pomegranate extract inhibits the interleukin-1-induced activation of MKK-3, p38-MAPK and transcription factor RUNX-2 in human osteoarthritis chondrocytes.

"33-8700 was used in western blot to study the effect of pomegranate extract on the IL-1beta-induced activation of MKK3/6, p38-MAPK, and RUNX-2 in primary human osteoarthritis chondrocytes"

Authors: Rasheed Z,Akhtar N,Haqqi TM

Species

Human
Not Applicable

Dilution

Not Cited
Not Cited

Year

2011

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Misc (1)

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