

# p38 MAPK beta Monoclonal Antibody (P38-11A5)

## Product Details

Size	100 µg
Species Reactivity	Human, Mouse
Published Species	Rabbit, Mouse, Human
Host/Isotype	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
Western Blot (WB)	Assay-dependent	13 Publications
Immunohistochemistry (IHC)	-	1 Publication
Immunohistochemistry (Paraffin) (IHC (P))	1:10-1:100	-
Immunocytochemistry (ICC/IF)	1 µg/mL	-
ELISA (ELISA)	Assay-dependent	-
Immunoprecipitation (IP)	Assay-dependent	3 Publications
Miscellaneous PubMed (Misc)	-	1 Publication

## Product Specific Information

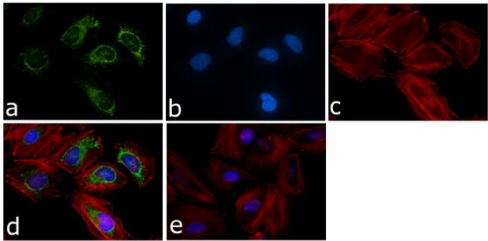
33-8700 has been successfully used in immunofluorescence and western blot.

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

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

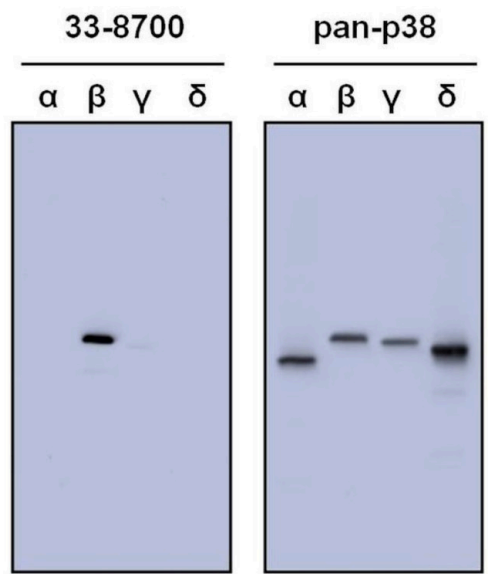
p38 MAPK beta Antibody (33-8700) in ICC/IF

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.



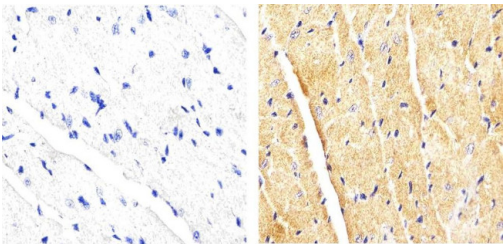
p38 MAPK beta Antibody (33-8700)

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. {ARRAY}



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 mouse heart 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.



View more figures on [thermofisher.com](https://thermofisher.com)

Western Blot (13)

<p>Neural regeneration research</p> <p><b>Crry silencing alleviates Alzheimer's disease injury by regulating neuroinflammatory cytokines and the complement system.</b></p> <p>"33-8700 was used in Western Blotting to suggest that Crry silencing in the P301S mouse model reduces tau protein phosphorylation by reducing the levels of neuroinflammation and complement components, thereby improving cognitive function."</p> <p>Authors: Zhu XC,Liu L,Dai WZ,Ma T</p>	<p>Year 2022</p> <p>Species Mouse</p> <p>Dilution 1:1000</p>
<p>RNA biology</p> <p><b>HuR stabilizes <i>HTT</i> mRNA via interacting with its exon 11 in a mutant HTT-dependent manner.</b></p> <p>"33-8700 was used in Western Blotting to reveal a novel regulatory mechanism of HTT mRNA via non-canonical binding of HuR."</p> <p>Authors: Zhao Q,Li C,Yu M,Sun Y,Wang J,Ma L,Sun X,Lu B</p>	<p>Year 2020</p> <p>Species Human</p>

[View more WB references on thermofisher.com](#)

Immunohistochemistry (1)

<p>Neural regeneration research</p> <p><b>Crry silencing alleviates Alzheimer's disease injury by regulating neuroinflammatory cytokines and the complement system.</b></p> <p>"33-8700 was used in Western Blotting to suggest that Crry silencing in the P301S mouse model reduces tau protein phosphorylation by reducing the levels of neuroinflammation and complement components, thereby improving cognitive function."</p> <p>Authors: Zhu XC,Liu L,Dai WZ,Ma T</p>	<p>Year 2022</p> <p>Species Mouse</p> <p>Dilution 1:1000</p>
---	--

Immunoprecipitation (3)

<p>Proceedings of the National Academy of Sciences of the United States of America</p> <p><b>p38 and p38 kinases regulate the Toll-like receptor 4 (TLR4)-induced cytokine production by controlling ERK1/2 protein kinase pathway activation.</b></p> <p>"Published figure using p38 MAPK beta monoclonal antibody (Product # 33-8700) in Western Blot"</p> <p>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</p>	<p>Year 2012</p> <p>Species Mouse</p>
---	---

[View more IP references on thermofisher.com](#)

More applications with references on thermofisher.com

Misc (1)

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization. Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON-INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (I) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (II) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (III) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (IV) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.