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Anti-p38 MAPK MAPK14 Rabbit Monoclonal Antibody

Catalog Number: M00176-1

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Overview

Product Name	Anti-p38 MAPK MAPK14 Rabbit Monoclonal Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-p38 MAPK MAPK14 Rabbit Monoclonal Antibody catalog # M00176-1. Tested in WB, IHC, ICC/IF applications. This antibody reacts with Human, Mouse, Rat.
Application	IF, IHC, ICC, WB
Clonality	Monoclonal EGC-13
Formulation	Rabbit IgG in stabilizing components, phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	Q16539

Technical Details

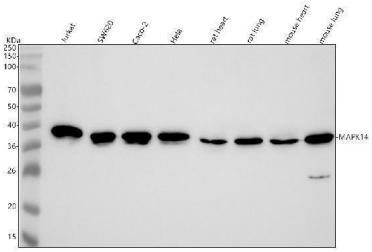
Immunogen	A synthesized peptide derived from human p38 MAPK
Isotype	Rabbit IgG
Form	Liquid
Concentration	0.5mg/ml
Purification	Affinity-chromatography
Suggested Dilutions	WB, 1:500-2000

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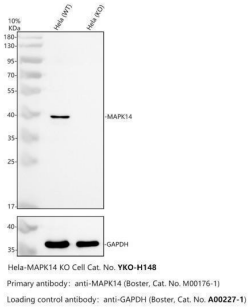
	IHC, 1:50-200 ICC/IF, 1:50-200

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Anti-p38 MAPK MAPK14 Rabbit Monoclonal Antibody (M00176-1) Images



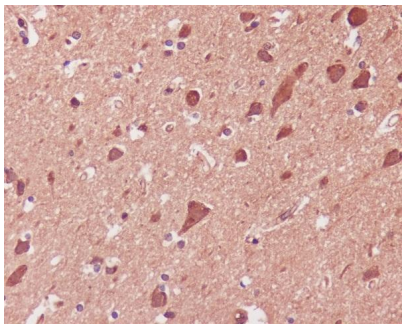
Western blot analysis of p38 MAPK using anti-p38 MAPK antibody (M00176-1). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human Jurkat whole cell lysates, Lane 2: human SW620 whole cell lysates, Lane 3: human CACO-2 whole cell lysates, Lane 4: human Hela whole cell lysates, Lane 5: rat heart tissue lysates, Lane 6: rat lung tissue lysates, Lane 7: mouse heart tissue lysates, Lane 8: mouse lung tissue lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-p38 MAPK antigen affinity purified monoclonal antibody (Catalog # M00176-1) at 1:500 overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:1000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for p38 MAPK at approximately 41, 38 kDa. The expected band size for p38 MAPK is at 41 kDa.



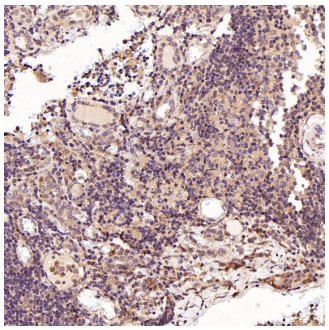
Western blot analysis of p38 MAPK/MAPK14 using anti-p38 MAPK/MAPK14 antibody (M00176-1). Electrophoresis was performed on a 10% SDS-PAGE gel at 80V (Stacking gel) / 120V (Resolving gel) for 2 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human Hela- WT whole cell lysates, Lane 2: human Hela-MAPK14 KO whole cell lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-p38 MAPK/MAPK14 antigen affinity purified monoclonal antibody (M00176-1) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an ECL Plus Western Blotting Substrate (Catalog # AR1196-200) with Tanon 5200 system. A specific band was detected for p38 MAPK/MAPK14 at approximately 38 kDa. The expected band size for p38 MAPK/MAPK14 is at 41 kDa.

IHC analysis of p38 MAPK using anti-p38 MAPK antibody (M00176-1) on human brain. p38 MAPK was detected in paraffin-embedded section. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-p38 MAPK Antibody (M00176-1) overnight at 4°C. Biotinylated goat anti Rabbit IgG IgG antibody was

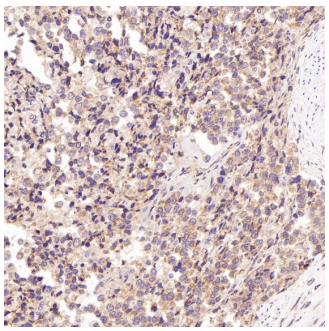
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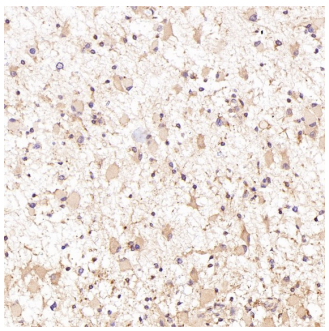
used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.



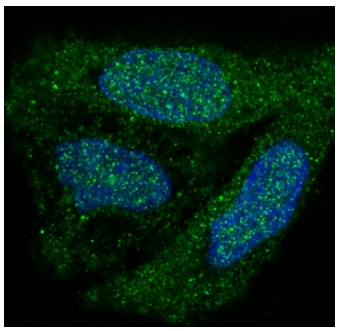
Immunohistochemical analysis of paraffin-embedded Human thyroid cancer, using the Antibody at 1:50 dilution.



Immunohistochemical analysis of paraffin-embedded Human prostate cancer, using the Antibody at 1:50 dilution.

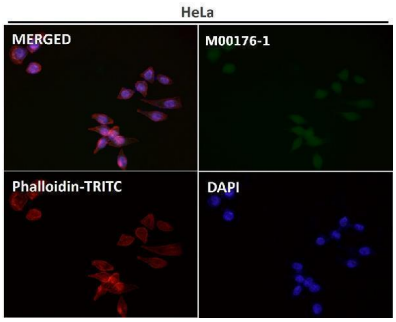


Immunohistochemical analysis of paraffin-embedded Human astrocytoma, using the Antibody at 1:300 dilution.



IF analysis of immunocytochemical section of Hela cells using anti-p38 MAPK antibody (M00176-1) p38 MAPK was detected in immunocytochemical section. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/mL rabbit anti-p38 MAPK Antibody (M00176-1) overnight at 4 °

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Immunofluorescent analysis using the Antibody at 1:50 dilution.

4 Publications Citing This Product

1. PubMed ID: 31611791, Wei X,Zhu Q,Liu N,Xu L,Wei S,Fan Z,Sun C,Zhao Y,Qiao M,Wu J,Hu D,Wang Y,Sun P.Neuroprotective Effects and Mechanisms of Zhenlong Xingnao Capsule in In Vivo and In Vitro Models of Hypoxia.Front Pharmacol.2019 Sep 26;10:1096.doi:10.3389/fphar.2019.01096.PMID:31611791;PMCID:PMC6775503.

2. PubMed ID: 32794226, Ma G,Kimatu BM,Yang W,Pei F,Zhao L,Du H,Su A,Hu Q,Xiao H.Preparation of newly identified polysaccharide from Pleurotus eryngii and its anti-inflammation activities potential.J Food Sci.2020 Sep;85(9):2822-2831. doi:10.1111/1750-3841.15375.Epub 2020 Aug 14

3. PubMed ID: 29048616, Liao S, Xiao S, Chen H, Zhang M, Chen Z, Long Y, Gao L, He J, Ge Y, Yi W, Wu M, Li G, Zhou Y. Int J Oncol. 2017 Nov;51(5):1497-1507. doi: 10.3892/ijo.2017.4137. Epub 2017 Sep 27. The receptor for activated protein kinase C promotes cell growth, in...

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