

Rabbit MAPK11 Polyclonal Antibody | anti-MAPK11 antibody

Anti-MAPK11 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125701	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Immunohistochemistry, Western Blot

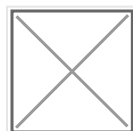
PRODUCT SYNONYMS

MAPK11; Polyclonal Antibody; Anti-MAPK11 Antibody; PRKM11; SAPK2; SAPK2B; Mitogen-activated protein kinase 11; MAP kinase 11; MAPK 11; Mitogen-activated protein kinase p38 beta; MAP kinase p38 beta; p38b; Stress-activated protein kinase 2b; SAPK2b; p38-2; mitogen-activated protein kinase 11; anti-MAPK11 antibody

PRODUCT SPECIFICATIONS

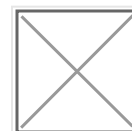
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for MAPK11 detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.01mg NaN3.
Applicable Applications for anti-MAPK11 antibody	ELISA (Direct ELISA), FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E Coli-derived human MAPK11 recombinant protein (Position: D230-Q364).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Recommended Detection Systems
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



FCM/FACS (Flow Cytometry)

Figure 4. Flow Cytometry analysis of THP-1 cells using anti-MAPK11 antibody (AAA125701). Overlay histogram showing THP-1 cells stained with AAA125701 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-MAPK11 Antibody (AAA125701, 1μg/1x106 cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10μg/1x106 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1μg/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



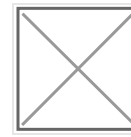
IF (Immunofluorescence)

Figure 3. IF analysis of MAPK11 using anti-MAPK11 antibody (AAA125701). MAPK11 was detected in immunocytochemical section of A431 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5μg/mL rabbit anti-MAPK11 Antibody (AAA125701) overnight at 4 degree C. DyLight®488 Conjugated Goat Anti-Rabbit IgG was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



IHC (Immunohistochemistry)

Figure 2. IHC analysis of MAPK11 using anti-MAPK11 antibody (AAA125701). MAPK11 was detected in paraffin-embedded section of human rectal cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2µg/ml rabbit anti-MAPK11 Antibody (AAA125701) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of MAPK11 using anti-MAPK11 antibody (AAA125701). 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 50µg of sample under reducing conditions. Lane 1: human placenta tissue lysates Lane 2: human SH-5Y5Y whole cell lysates Lane 3: human T-47D whole cell lysates Lane 4: human MCF-7 whole cell lysates Lane 5: human U-87MG whole cell lysates Lane 6: human Hela whole cell lysates Lane 7: human K562 whole cell lysates Lane 8: rat lung tissue lysates Lane 9: mouse lung tissue lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA 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-MAPK11 antigen affinity purified polyclonal antibody (Catalog # AAA125701) at 0.5 µg/mL overnight at 4 degree 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 Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for MAPK11 at approximately 45KD. The expected band size for MAPK11 is at 45KD.

ADDITIONAL INFORMATION

Related Product Information for anti-MAPK11 antibody	Mitogen-activated protein kinase 11 is an enzyme that in humans is encoded by the MAPK11 gene. This gene encodes a member of a family of protein kinases that are involved in the integration of biochemical signals for a wide variety of cellular processes, including cell proliferation, differentiation, transcriptional regulation, and development. The encoded protein can be activated by proinflammatory cytokines and environmental stresses through phosphorylation by mitogen activated protein kinase kinases (MKKs). Alternative splicing results in multiple transcript variants.
References	<ol style="list-style-type: none">1. Enslen, H., Raingeaud, J., Davis, R. J. Selective activation of p38 mitogen-activated protein (MAP) kinase isoforms by the MAP kinase kinases MKK3 and MKK6. J. Biol. Chem. 273: 1741-1748, 1998.2. Jiang, Y., Chen, C., Li, Z., Guo, W., Gegner, J. A., Lin, S., Han, J. Characterization of the structure and function of a new mitogen-activated protein kinase (p38-beta). J. Biol. Chem. 271: 17920-17926, 1996.3. Rasooly, R. S. Personal Communication. Baltimore, Md. 6/15/1998.

NCBI AND UNIPROT INFORMATION

NCBI GI #	134047835
NCBI GeneID	5600
UniProt Accession #	Q15759 ; O00284 ; O15472 ; Q2XNF2 ; A8K730 ; B0LPG1 ; B7Z630 ; E7ETQ1 ; L7RT27
Molecular Weight	364
NCBI Official Full Name	Mitogen-activated protein kinase 11
NCBI Official Synonym Full Names	mitogen-activated protein kinase 11
NCBI Official Symbol	MAPK11
NCBI Official Synonym Symbols	P38B; SAPK2; p38-2; PRKM11; SAPK2B; p38Beta; P38BETA2
NCBI Protein Information	mitogen-activated protein kinase 11; MAP kinase 11; MAP kinase p38 beta; stress-activated protein kinase-2; stress-activated protein kinase-2b; mitogen-activated protein kinase p38-2; mitogen-activated protein kinase p38 beta
UniProt Protein Name	Mitogen-activated protein kinase 11
UniProt Gene Name	MAPK11
UniProt Synonym Gene Names	PRKM11; SAPK2; SAPK2B; MAP kinase 11; MAPK 11; MAP kinase p38 beta; p38b; SAPK2b
UniProt Entry Name	MK11_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/mapk11-antibody-direct-elisa-flow-cytometry-immunofluorescence-immunocytochemistry-immunohistochemistry-western-blot-elisa/125701>