

Rabbit anti-Human JNK1 Polyclonal Antibody | anti-MAPK8 antibody

Anti-JNK1 Antibody, Rabbit Polyclonal

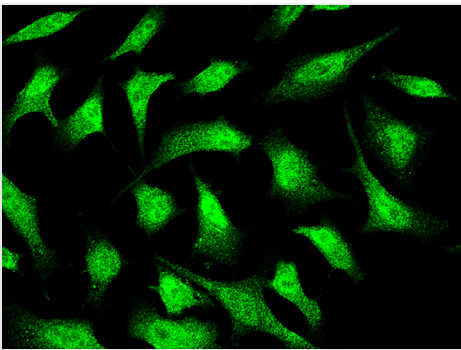
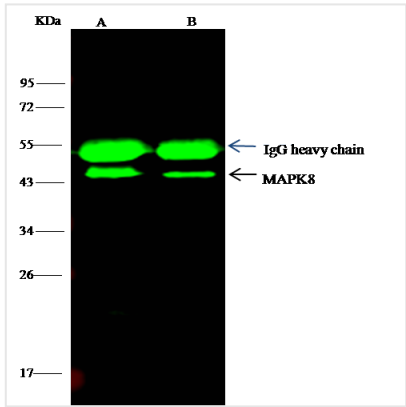
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA255166	Rabbit	Human	Immunoprecipitation, Immunofluorescence, Immunocytochemistry, ELISA, Western Blot

PRODUCT SYNONYMS

JNK1; Polyclonal Antibody; Anti-JNK1 Antibody; Rabbit Polyclonal; JNK1/MAPK8 Antibody; Rabbit PAb; Antigen Affinity Purified; mitogen-activated protein kinase 8; Anti-JNK Antibody; Anti-JNK-46 Antibody; Anti-JNK1A2 Antibody; Anti-JNK21B1/2 Antibody; Anti-PRKM8 Antibody; Anti-SAPK1 Antibody; Anti-SAPK1c Antibody; anti-MAPK8 antibody

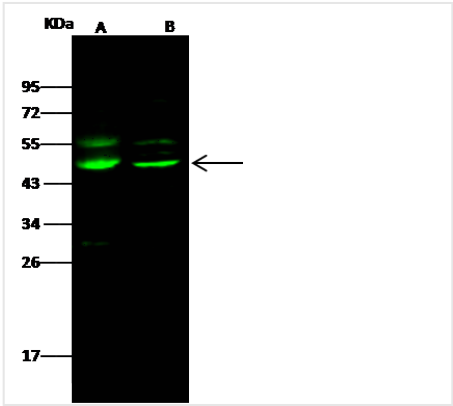
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human JNK1/MAPK8
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-MAPK8 antibody	IP (Immunoprecipitation), IF (Immunofluorescence), ICC (Immunocytochemistry), ELISA, WB (Western Blot)
Immunogen	Recombinant Human JNK1/MAPK8 Protein
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with purified, recombinant Human JNK1/MAPK8 (rh JNK1/MAPK8). JNK1/MAPK8 specific IgG was purified by Human JNK1/MAPK8 affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.



IF (Immunofluorescence)
Immunofluorescence staining of MAPK8 in HeLa cells. Cells were fixed with 4% PFA, permeabilized with 0.3% Triton X-100 in PBS, blocked with 10% serum, and incubated with rabbit anti-human MAPK8 polyclonal antibody (1:1000) at 4 degree C overnight. Then cells were stained with the Alexa Fluor488-conjugated Goat Anti-rabbit IgG secondary antibody (green). Positive staining was localized to cytoplasm and nucleus.

IP (Immunoprecipitation)
MAPK8 was immunoprecipitated using: Lane A: 0.5 mg HepG2 Whole Cell Lysate; Lane B: 0.5 mg K562 Whole Cell Lysate. 4 μ L anti-MAPK8 rabbit polyclonal antibody and 15 μ L of 50 % Protein G agarose. Primary antibody: Anti-MAPK8 rabbit polyclonal antibody, at 1:100 dilution. Secondary antibody: DyLight 800-labeled antibody to rabbit IgG (H+L), at 1:5000 dilution. Developed using the Odyssey technique. Performed under reducing conditions. Predicted band size: 44 kDa. Observed band size: 44 kDa.



WB (Western Blot)
Anti-MAPK8 rabbit polyclonal antibody at 1:500 dilution. Lane A: K562 Whole Cell Lysate; Lane B: A431 Whole Cell Lysate. Lysates/proteins at 30 μ g per lane. Secondary: Goat Anti-Rabbit γ -Globulin (DyLight 800) at 1:10000 dilution. Developed using the Odyssey technique. Performed under reducing conditions. Predicted band size: 44 kDa. Observed band size: 49 kDa (We are unsure as to the identity of these extra bands).

ADDITIONAL INFORMATION

Related Product Information for anti-MAPK8 antibody	Mitogen-activated protein kinase 8 (MAPK8), also known as JNK1, is a member of the MAP kinase family. MAP kinases act as an integration point for multiple biochemical signals and are involved in a wide variety of cellular processes such as proliferation, differentiation, transcription regulation, and development. The protein kinases JNK1 has been found to serve as critical molecular links between obesity, metabolic inflammation, and disorders of glucose homeostasis. It is critically involved in the promotion of diet-induced obesity, metabolic inflammation, and beta-cell dysfunction. The selective deficiency of JNK1 in the murine nervous system is sufficient to suppress diet-induced obesity. Genetic analysis indicates that the effects of JNK1 can be separated from the effects of JNK1 on obesity. JNK1 is a potential pharmacological target for the development of drugs that might be useful for the treatment of metabolic syndrome, and type 2 diabetes. Furthermore, JNK1 plays a major role in hypoxic cellular damage. JNK1 protein might be an attractive target for anti-hypoxic therapy in increasing resistance to many pathological conditions and diseases, leading to the oxygen deficit.
Product Categories/Family for anti-MAPK8 antibody	VEGF Signaling Pathway

References	Betigeri S, et al. (2006) JNK1 as a molecular target to limit cellular mortality under hypoxia. Mol Pharm. 3(4): 424-30.Solinas G, et al. (2010) JNK1 and IKKbeta: molecular links between obesity and metabolic dysfunction. FASEB J. 24(8): 2596-611.Sabio G, et al. (2010) Role of the hypothalamic-pituitary-thyroid axis in metabolic regulation by JNK1. Genes Dev. 24(3): 256-64.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	20986523
NCBI GeneID	5599
NCBI Accession #	NP_620637.1
NCBI GenBank Nucleotide #	NM_139049.2
UniProt Accession #	P45983; Q15709; Q15712; Q15713; Q308M2; B5BTZ5; B7ZLV4; D3DX88; D3DX92
Molecular Weight	35,333 Da
NCBI Official Full Name	mitogen-activated protein kinase 8 isoform alpha2
NCBI Official Synonym Full Names	mitogen-activated protein kinase 8
NCBI Official Symbol	MAPK8
NCBI Official Synonym Symbols	JNK; JNK1; PRKM8; SAPK1; JNK-46; JNK1A2; SAPK1c; JNK21B1/2
NCBI Protein Information	mitogen-activated protein kinase 8; MAP kinase 8; JUN N-terminal kinase; c-Jun N-terminal kinase 1; stress-activated protein kinase 1; stress-activated protein kinase 1c; mitogen-activated protein kinase 8 isoform JNK1 beta2; mitogen-activated protein kin
UniProt Protein Name	Mitogen-activated protein kinase 8
UniProt Gene Name	MAPK8
UniProt Synonym Gene Names	JNK1; PRKM8; SAPK1; SAPK1C; MAP kinase 8; MAPK 8; SAPK1c
UniProt Entry Name	MK08_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.