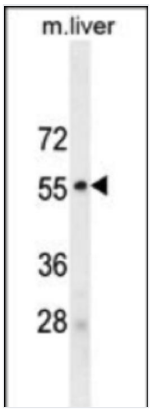
MAPK8 Antibody – Rabbit Polyclonal

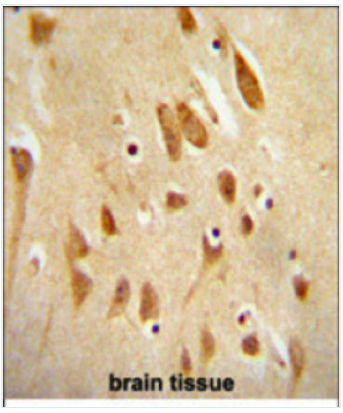
PRODUCT OVERVIEW

Product Name	MAPK8, Polyclonal Antibody
Full Product Name	MAPK8 (T183/Y185) (MAPK8, JNK1, PRKM8, SAPK1, SAPK1C, Mitogen-activated protein kinase 8, JNK-46, Stress-activated protein kinase 1c, Stress-activated protein kinase JNK1, c-Jun N-terminal kinase 1) (FITC)
Product Gene Name	anti-MAPK8 antibody
Product Synonym Names	MAPK8; JNK1; PRKM8; SAPK1; SAPK1C; Mitogen-activated protein kinase 8; JNK-46; Stress-activated protein kinase 1c; Stress-activated protein kinase JNK1; c-Jun N-terminal kinase 1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Fluorescein Isothiocyanate (FITC).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: FITC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	35,333 Da
OMIM	601158
3D Structure	ModBase 3D Structure for P45983
Immunogen	JNK1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 162-199 amino acids from human JNK1.
Conjugate	FITC
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-MAPK8 antibody	Antibodies; Protein Kinases
Applications Tested/Suitable for anti-MAPK8 antibody	Immunohistochemistry (IHC), FLISA, Western Blot (WB)
Application Notes for anti-MAPK8 antibody	IHC: 1:50-100 FLISA: 1:1,000 WB: 1:100-500 Applications are based on unconjugated antibody.

Related Product Information for anti-MAPK8 antibody	The protein encoded by this gene 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. This kinase is activated by various cell stimuli, and targets specific transcription factors, and thus mediates immediate-early gene expression in response to cell stimuli. The activation of this kinase by tumor-necrosis factor alpha (TNF-alpha) is found to be required for TNF-alpha induced apoptosis. This kinase is also involved in UV radiation induced apoptosis, which is thought to be related to cytochrom c-mediated cell death pathway. Studies of the mouse counterpart of this gene suggested that this kinase play a key role in T cell proliferation, apoptosis and differentiation. Four alternatively spliced transcript variants encoding distinct isoforms have been reported.
Product References and Citations for anti-MAPK8 antibody	Dasgupta, J., et al. J. Cell. Physiol. 225(1):52-62(2010). Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010). Gao, D., et al. J. Biol. Chem. 285(39):29965-29973(2010). Han, J.S., et al. Anticancer Res. 30(9):3407-3412(2010). Yang, X.H., et al. World J. Gastroenterol. 16(27):3385-3393(2010).
Other Notes	Small volumes of anti-MAPK8 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for MAPK8 purchase	MBS6318850 is an antibody targeting MAPK8. Also known as MAPK8 (T183/Y185) (MAPK8, JNK1, PRKM8, SAPK1, SAPK1C, Mitogen-activated protein kinase 8, JNK-46, Stress-activated protein kinase 1c, Stress-activated protein kinase JNK1, c-Jun N-terminal kinase 1) (FITC). Reactive in Human, Mouse. Host: Rabbit.



Western Blot (WB) of anti-MAPK8 antibody
038181 used in Western Blot analysis in mouse liver tissue lysates (35ug/lane).This demonstrates the MAPK8 antibody detected the MAPK8 protein (arrow).



Immunohistochemistry (IHC) of anti-MAPK8 antibody
038181 used in Immunohistochemistry analysis in formalin fixed and paraffin embedded human brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the LJNK1-T183/Y185 antibody for immunohistochemistry. Clinical relevance has not been evaluated.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MAPK8. It may not necessarily be applicable to this product.

NCBI GI #	20986523
NCBI GeneID	5599
NCBI Accession #	NP_620637
UniProt Primary Accession #	P45983
UniProt Secondary Accession #	Q15709; Q15712; Q15713; Q308M2; B5BTZ5; B7ZLV4; D3DX88; D3DX92
UniProt Related Accession #	P45983
GenBank Nucleotide #	NM_139049.2
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

UniProt Protein Name	Mitogen-activated protein kinase 8
UniProt Synonym Protein Names	JNK-46; Stress-activated protein kinase 1c; SAPK1c; Stress-activated protein kinase JNK1; c-Jun N-terminal kinase 1
Protein Family	JNK1/MAPK8-associated membrane protein
UniProt Gene Name	MAPK8
UniProt Synonym Gene Names	JNK1; PRKM8; SAPK1; SAPK1C; MAP kinase 8; MAPK 8; SAPK1c
UniProt Entry Name	MK08_HUMAN
NCBI Protein Information	mitogen-activated protein kinase 8
NCBI Summary for MAPK8	The protein encoded by this gene 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. This kinase is activated by various cell stimuli, and targets specific transcription factors, and thus mediates immediate-early gene expression in response to cell stimuli. The activation of this kinase by tumor-necrosis factor alpha (TNF-alpha) is found to be required for TNF-alpha induced apoptosis. This kinase is also involved in UV radiation induced apoptosis, which is thought to be related to cytochrom c-mediated cell death pathway. Studies of the mouse counterpart of this gene suggested that this kinase play a key role in T cell proliferation, apoptosis and differentiation. Five alternatively spliced transcript variants encoding distinct isoforms have been reported. [provided by RefSeq, Jun 2013]
UniProt Comments for MAPK8	JNK1: a protein kinase of the MAPK family that is potently activated by a variety of environmental stresses, including UV and gamma radiation, ceramides, pro-inflammatory cytokines and, in some instances, by growth factors and GPCR agonists. Substrates include a number of transcription factors, primarily components of AP-1 such as c-Jun and ATF2, thus regulating AP-1 transcriptional activity. In T- cells, JNK1 and JNK2 are required for polarized differentiation of T-helper cells into Th1 cells. Binds to at least four scaffolding proteins, JIP-1, -2, -3 and -4. Activity increased in obesity. Inhibition or mouse knockout increases insulin sensitivity. Part of NFB pathway involved in inflammation and cancer, and signals downstream of Ras, though possibly as an apoptotic negative regulator of growth. Four alternatively-spliced isoforms have been described. Protein type: Kinase, protein; EC 2.7.11.24; Protein kinase, CMGC; Protein kinase, Ser/Thr (non-receptor); CMGC group; MAPK family; MAPK/JNK subfamily; JNK subfamily Chromosomal Location of Human Ortholog: 10q11.22 Cellular Component: nucleoplasm; mitochondrion; cytosol; nucleus Molecular Function: protein serine/threonine kinase activity; protein binding; enzyme binding; histone deacetylase regulator activity; histone deacetylase binding; JUN kinase activity; ATP binding Biological Process: nerve growth factor receptor signaling pathway; apoptosis; positive regulation of apoptosis; rhythmic process; stress-activated MAPK cascade; toll-like receptor 3 signaling pathway; protein amino acid phosphorylation; toll-like receptor 10 signaling pathway; toll-like receptor 5 signaling pathway; regulation of protein localization; regulation of transcription factor activity; response to stress; JNK cascade; negative regulation of protein binding; toll-like receptor 4 signaling pathway; response to UV; ossification; regulation of histone deacetylation; MyD88-independent toll-like receptor signaling pathway; peptidyl-threonine phosphorylation; regulation of circadian rhythm; JUN phosphorylation; toll-like receptor 2 signaling pathway; MyD88-dependent toll-like receptor signaling pathway; peptidyl-serine phosphorylation; response to cadmium ion; toll-like receptor signaling pathway; innate immune response; toll-like receptor 9 signaling pathway; negative regulation of apoptosis
Research Articles on MAPK8	**1.** JNK1/2 and p38 MAPK signaling pathways are beneficial to enterovirus 71 infection and positively regulate secretions of inflammatory cytokines in dendritic cells.
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