

MAP2K7 Antibody (C-Term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP21557b

Specification

MAP2K7 Antibody (C-Term) - Product Information

Application	WB,E
Primary Accession	O14733
Reactivity	Rat
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Calculated MW	47485

MAP2K7 Antibody (C-Term) - Additional Information

Gene ID 5609

Other Names

Dual specificity mitogen-activated protein kinase kinase 7, MAP kinase kinase 7, MAPKK 7, JNK-activating kinase 2, MAPK/ERK kinase 7, MEK 7, Stress-activated protein kinase kinase 4, SAPK kinase 4, SAPKK-4, SAPKK4, c-Jun N-terminal kinase kinase 2, JNK kinase 2, JNKK 2, MAP2K7, JNKK2, MEK7, MKK7, PRKMK7, SKK4

Target/Specificity

This MAP2K7 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 325-360 amino acids of human MAP2K7.

Dilution

WB~~1:2000

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

MAP2K7 Antibody (C-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

MAP2K7 Antibody (C-Term) - Protein Information

Name MAP2K7

Synonyms JNKK2, MEK7, MKK7, PRKMK7, SKK4

Function Dual specificity protein kinase which acts as an essential component of the MAP kinase signal transduction pathway. Essential component of the stress-activated protein kinase/c-Jun N-terminal kinase (SAP/JNK) signaling pathway. With MAP2K4/MKK4, is the one of the only known kinase to directly activate the stress-activated protein kinase/c-Jun N-terminal kinases MAPK8/JNK1, MAPK9/JNK2 and MAPK10/JNK3. MAP2K4/MKK4 and MAP2K7/MKK7 both activate the JNKs by phosphorylation, but they differ in their preference for the phosphorylation site in the Thr-Pro-Tyr motif. MAP2K4/MKK4 shows preference for phosphorylation of the Tyr residue and MAP2K7/MKK7 for the Thr residue. The monophosphorylation of JNKs on the Thr residue is sufficient to increase JNK activity indicating that MAP2K7/MKK7 is important to trigger JNK activity, while the additional phosphorylation of the Tyr residue by MAP2K4/MKK4 ensures optimal JNK activation. Has a specific role in JNK signal transduction pathway activated by pro-inflammatory cytokines. The MKK/JNK signaling pathway is also involved in mitochondrial death signaling pathway, including the release cytochrome c, leading to apoptosis. Part of a non-canonical MAPK signaling pathway, composed of the upstream MAP3K12 kinase and downstream MAP kinases MAPK1/ERK2 and MAPK3/ERK1, that enhances the AP-1-mediated transcription of APP in response to APOE (PubMed:[28111074](#)).

Cellular Location

Nucleus. Cytoplasm.

Tissue Location

Ubiquitous; with highest level of expression in skeletal muscle. Isoform 3 is found at low levels in placenta, fetal liver, and skeletal muscle.

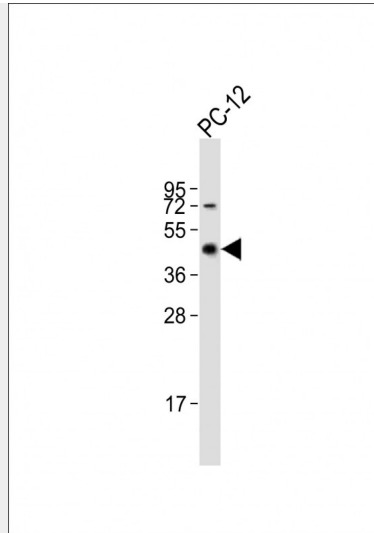
MAP2K7 Antibody (C-Term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

MAP2K7 Antibody (C-Term) - Images





Anti-MAP2K7 Antibody (C-Term) at 1:2000 dilution + PC-12 whole cell lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 47 kDa Blocking/Dilution buffer: 5% NFD/MTBST.

MAP2K7 Antibody (C-Term) - Background

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MAP2K7 Antibody (C-Term) - References

- Wu Z., et al. Mol. Cell. Biol. 17:7407-7416(1997).
- Lu X., et al. J. Biol. Chem. 272:24751-24754(1997).
- Foltz I.N., et al. J. Biol. Chem. 273:9344-9351(1998).
- Michael L., et al. Biochem. Biophys. Res. Commun. 341:679-683(2006).
- Yang J., et al. Submitted (SEP-1997) to the EMBL/GenBank/DDBJ databases.