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ZPK Antibody (Center) Blocking Peptide

Synthetic peptide
Catalog # BP7811a

Specification

ZPK Antibody (Center) Blocking Peptide - Product Information

Primary Accession Q12852

ZPK Antibody (Center) Blocking Peptide - Additional Information

Gene ID 7786

Other Names
Mitogen-activated protein kinase kinase kinase 12, Dual leucine zipper bearing kinase, DLK, Leucine-zipper protein kinase, ZPK, MAPK-upstream kinase, MUK, Mixed lineage kinase, MAP3K12, ZPK

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP7811a was selected from the Center region of human ZPK . A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

ZPK Antibody (Center) Blocking Peptide - Protein Information

Name MAP3K12

Synonyms ZPK

Function
Part of a non-canonical MAPK signaling pathway (PubMed:28111074). Activated by APOE, enhances the AP-1-mediated transcription of APP, via a MAP kinase signal transduction pathway composed of MAP2K7 and MAPK1/ERK2 and MAPK3/ERK1 (PubMed:28111074). May be an activator of the JNK/SAPK pathway.

Cellular Location

Cytoplasm {ECO:0000250|UniProtKB:Q60700}. Cell membrane {ECO:0000250|UniProtKB:Q60700}. Note=Behaves essentially as an integral membrane protein. {ECO:0000250|UniProtKB:Q60700}

Tissue Location
Highly expressed in brain and kidney.

ZPK Antibody (Center) Blocking Peptide - Protocols

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

- Blocking Peptides

ZPK Antibody (Center) Blocking Peptide - Images

ZPK Antibody (Center) Blocking Peptide - Background

ZPK, a member of the Ser/Thr protein kinase family (MAP kinase kinase kinase subfamily), may be an activator of the JNK/SAPK pathway. It phosphorylates beta-casein, histone 1 and myelin basic protein in vitro, and interacts with MBIP through the leucine-zipper motif. ZPK is highly expressed in brain and kidney. It is phosphorylated in cytosol under basal conditions and dephosphorylated when membrane-associated.

ZPK Antibody (Center) Blocking Peptide - References

Fukuyama, K., et al., J. Biol. Chem. 275(28):21247-21254 (2000).Reddy, U.R., et al., Biochem. Biophys. Res. Commun. 202(1):613-620 (1994).