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TNK1 Antibody (Center) Blocking Peptide

Synthetic peptide
Catalog # BP7722c

Specification

TNK1 Antibody (Center) Blocking Peptide - Product Information

Primary Accession	Q13470
Other Accession	O95364

TNK1 Antibody (Center) Blocking Peptide - Additional Information

Gene ID 8711

Other Names
Non-receptor tyrosine-protein kinase TNK1, CD38 negative kinase 1, TNK1 {ECO:0000312|EMBL:AAC994121}

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP7722c was selected from the Center region of human TNK1 . 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.

TNK1 Antibody (Center) Blocking Peptide - Protein Information

Name TNK1 {ECO:0000312|EMBL:AAC99412.1}

Function
Involved in negative regulation of cell growth. Has tumor suppressor properties. Plays a negative regulatory role in the Ras-MAPK pathway. May function in signaling pathways utilized broadly during fetal development and more selectively in adult tissues and in cells of the lymphohematopoietic system. Could specifically be involved in phospholipid signal transduction.

Cellular Location
Cytoplasm. Membrane; Peripheral membrane protein

Tissue Location
Expressed in all umbilical cord blood, bone marrow and adult blood cell sub-populations and in

several leukemia cell lines. Highly expressed in fetal blood, brain, lung, liver and kidney Detected at lower levels in adult prostate, testis, ovary, small intestine and colon. Not expressed in adult lung, liver, kidney or brain.

TNK1 Antibody (Center) Blocking Peptide - Protocols

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

- Blocking Peptides

TNK1 Antibody (Center) Blocking Peptide - Images

TNK1 Antibody (Center) Blocking Peptide - Background

Protein kinases are enzymes that transfer a phosphate group from a phosphate donor, generally the g phosphate of ATP, onto an acceptor amino acid in a substrate protein. By this basic mechanism, protein kinases mediate most of the signal transduction in eukaryotic cells, regulating cellular metabolism, transcription, cell cycle progression, cytoskeletal rearrangement and cell movement, apoptosis, and differentiation. With more than 500 gene products, the protein kinase family is one of the largest families of proteins in eukaryotes. The family has been classified in 8 major groups based on sequence comparison of their tyrosine (PTK) or serine/threonine (STK) kinase catalytic domains.

TNK1 Antibody (Center) Blocking Peptide - References

Blume-Jensen P, et al. Nature 2001. 411: 355.Cantrell D, J. Cell Sci. 2001. 114: 1439.Jhiang S Oncogene 2000. 19: 5590.Manning G, et al. Science 2002. 298: 1912.Moller, D, et al. Am. J. Physiol. 1994. 266: C351-C359.Robertson, S. et al. Trends Genet. 2000. 16: 368.Robinson D, et al. Oncogene 2000. 19: 5548.Van der Ven, P, et al. Hum. Molec. Genet. 1993. 2: 1889.Vanhaesebroeck, B, et al. Biochem. J. 2000. 346: 561.Van Weering D, et al. Recent Results Cancer Res. 1998. 154: 271.