10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

TNK1 Antibody
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP7722e

Specification

TNK1 Antibody - Product Information

Application	**WB,E**
Primary Accession	Q13470
Other Accession	O95364
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**72468**

TNK1 Antibody - Additional Information

Gene ID 8711

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

Target/Specificity
This TNK1 antibody is generated from rabbits immunized with TNK1 recombinant protein.

Dilution
WB~~1:1000
E~~Use at an assay dependent concentration.

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
TNK1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

TNK1 Antibody - 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

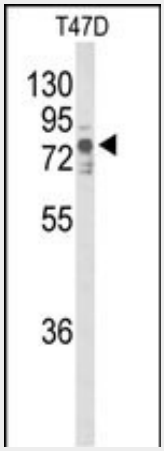
Tissue Location
Expressed in all umbilical cord blood, bone marrow and adult blood cell sub-populations and in several leukemia cell lines. Highly expressed in fetal blood, brain, lung, liver and kidney Detected at lower levels in adult prostate, testis, ovary, small intestine and colon. Not expressed in adult lung, liver, kidney or brain.

TNK1 Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

TNK1 Antibody - Images



Western blot analysis of TNK1 Antibody (Cat. #AP7722e) in T47D cell line lysates (35ug/lane). TNK1 (arrow) was detected using the purified Pab.

TNK1 Antibody - 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.

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

TNK1 Antibody - 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.

TNK1 Antibody - Citations

- Close interaction with bone marrow mesenchymal stromal cells induces the development of cancer stem cell-like immunophenotype in B cell precursor acute lymphoblastic leukemia cells