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TNK1 Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO1182a

Product Information

Application	WB, E
Primary Accession	Q13470
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	1B5G3; 3F11H6
Isotype	IgG1
Calculated MW	72468
Description	TNK1: tyrosine kinase, non-receptor, 1. TNK1 is a nonreceptor tyrosine kinase(NRPTK). These kinases, like members of the SRC (MIM 190090) and JAK (see MIM 147795) families, mediate intracellular signaling downstream of receptor activation.Tnk1 is a ubiquitously expressed 47-kDa protein with autotyrosine kinase activity that is developmentally regulated during embryogenesis. Tnk1 is also upregulated following IL3 withdrawal from factor-dependent murine NSF/N1.H7 cells that undergo apoptosis, suggesting a role in growth inhibition. Data support a negative regulatory role for Tnk1 in regulating the Ras-Raf1-MAPK growth pathway by a mechanism that requires its autotyrosine kinase activity.
Immunogen	Purified recombinant fragment of TNK1 (aa451-560) expressed in E. Coli.
Formulation	Ascitic fluid containing 0.03% sodium azide.

Additional Information

Gene ID	8711
Other Names	Non-receptor tyrosine-protein kinase TNK1, 2.7.10.2, CD38 negative kinase 1, TNK1 {ECO:0000312|EMBL:AAC99412.1}
Dilution	WB~~1/500 - 1/2000 E~~N/A
Storage	Maintain refrigerated at 2-8°C for up to 6 months. 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.

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.

References

1. Oncogene. 1996 Feb 15;12(4):903-13. 2. Oncogene. 2003 Jun 5;22(23):3562-77. 3. Oncogene. 2007 Oct 4;26(45):6536-45.

Images

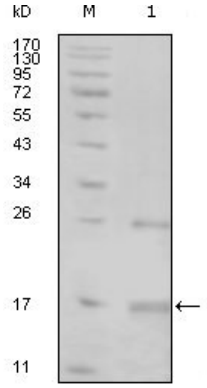


Figure 1: Western blot analysis using TNK1 mouse mAb against truncated TNK1-His recombinant protein (1).

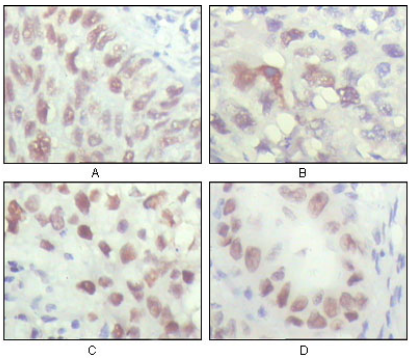
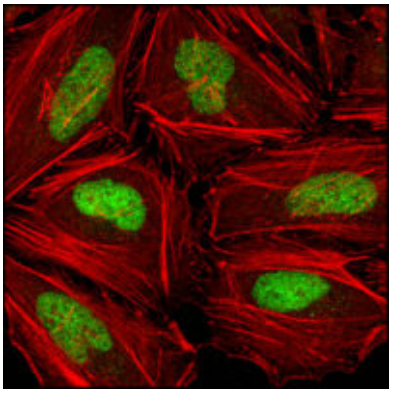


Figure 2: Immunohistochemical analysis of paraffin-embedded human lung carcinoma (A), liver carcinoma (B), breast carcinoma (C) and kiney carcinoma (D), showing nuclear localization with DAB staining using CHK2 mouse mAb.

Figure 3: Confocal immunofluorescence analysis of Hela cells using anti-CHK2 mAb (green), showing nuclear localization. Red: Actin filaments have been labeled with DY-554 phalloidin.



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