

**TNK1 Monoclonal Antibody**

<b>Catalog No :</b>	YM0623
<b>Reactivity :</b>	Human
<b>Applications :</b>	WB;ELISA
<b>Target :</b>	TNK1
<b>Gene Name :</b>	TNK1
<b>Protein Name :</b>	Non-receptor tyrosine-protein kinase TNK1
<b>Human Gene Id :</b>	8711
<b>Human Swiss Prot No :</b>	Q13470
<b>Mouse Swiss Prot No :</b>	Q99ML2
<b>Immunogen :</b>	Purified recombinant fragment of TNK1 (aa451-560) expressed in E. Coli.
<b>Specificity :</b>	TNK1 Monoclonal Antibody detects endogenous levels of TNK1 protein.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Monoclonal, Mouse
<b>Dilution :</b>	WB 1:500 - 1:2000. ELISA: 1:10000. Not yet tested in other applications.
<b>Purification :</b>	Affinity purification
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Do not lower than -25°C)
<b>Molecularweight :</b>	72kD
<b>P References :</b>	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.

**Background :**

The protein encoded by this gene belongs to the tyrosine protein kinase family. Tyrosine protein kinases are important regulators of intracellular signal transduction pathways, mediating cellular proliferation, survival, and development. This gene is highly expressed in fetal tissues and at lower levels in few adult tissues, thus may function in signaling pathways utilized broadly during fetal development, and more selectively in adult tissues. It plays a negative regulatory role in the Ras-Raf1-MAPK pathway, and knockout mice have been shown to develop spontaneous tumors, suggesting a role as a tumor suppressor gene. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2011],

**Function :**

catalytic activity:ATP + a [protein]-L-tyrosine = ADP + a [protein]-L-tyrosine phosphate.,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.,PTM:Autophosphorylated on tyrosine residues.,similarity:Belongs to the protein kinase superfamily. Tyr protein kinase family.,similarity:Contains 1 protein kinase domain.,similarity:Contains 1 SH3 domain.,subunit:Interacts with the SH3 domain of PLCG1 via its Pro-rich domain.,tissue specificity:Expressed in all umbilical cord blood, bone marrow and adult blood cell sub-populations and in several leukemia cell lines. Highly expr

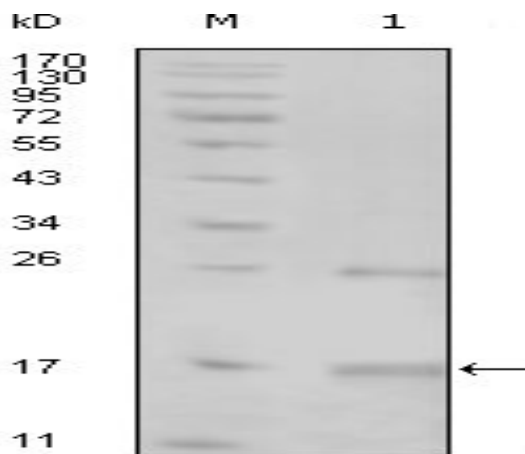
**Subcellular Location :**

Cytoplasm . Membrane ; Peripheral membrane protein .

**Expression :**

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.

## Products Images



Western Blot analysis using TNK1 Monoclonal Antibody against truncated TNK1-His recombinant protein (1).