

Emt Monoclonal Antibody

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| Catalog No : | YM0218 |
| Reactivity : | Human |
| Applications : | WB;IF;FCM;ELISA |
| Target : | Emt |
| Fields : | >>Chemokine signaling pathway;>>T cell receptor signaling pathway;>>Leukocyte transendothelial migration |
| Gene Name : | ITK |
| Protein Name : | Tyrosine-protein kinase ITK/TSK |
| Human Gene Id : | 3702 |
| Human Swiss Prot No : | Q08881 |
| Mouse Swiss Prot No : | Q03526 |
| Immunogen : | Purified recombinant fragment of human Emt expressed in E. Coli. |
| Specificity : | Emt Monoclonal Antibody detects endogenous levels of Emt protein. |
| Formulation : | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide. |
| Source : | Monoclonal, Mouse |
| Dilution : | WB 1:500 - 1:2000. IF 1:200 - 1:1000. Flow cytometry: 1:200 - 1:400. ELISA: 1:10000. Not yet tested in other applications. |
| Purification : | Affinity purification |
| Storage Stability : | -15°C to -25°C/1 year(Do not lower than -25°C) |
| Molecularweight : | 72kD |

Cell Pathway : Chemokine;T_Cell_Receptor;Leukocyte transendothelial migration;

P References :

1. J Clin Invest. 2009 May;119(5):1350-8.
2. Mol Cells. 2009 Aug 31;28(2):125-30.

Background : This gene encodes an intracellular tyrosine kinase expressed in T-cells. The protein contains both SH2 and SH3 domains which are often found in intracellular kinases. It is thought to play a role in T-cell proliferation and differentiation. [provided by RefSeq, Jul 2008],

Function : catalytic activity:ATP + a [protein]-L-tyrosine = ADP + a [protein]-L-tyrosine phosphate.,cofactor:Binds 1 zinc ion per subunit.,function:Plays a role in T-cell proliferation and differentiation.,induction:By interleukin-2.,similarity:Belongs to the protein kinase superfamily. Tyr protein kinase family. TEC subfamily.,similarity:Contains 1 Btk-type zinc finger.,similarity:Contains 1 PH domain.,similarity:Contains 1 protein kinase domain.,similarity:Contains 1 SH2 domain.,similarity:Contains 1 SH3 domain.,subcellular location:Localizes to cell surface receptors in the plasma membrane after stimulation with respective receptors (TCR, CD28, CD2) in T-cells.,tissue specificity:T-cell lines and natural killer cell lines.,

Subcellular Location : Cytoplasm . Nucleus . Localizes in the vicinity of cell surface receptors in the plasma membrane after receptor stimulation.

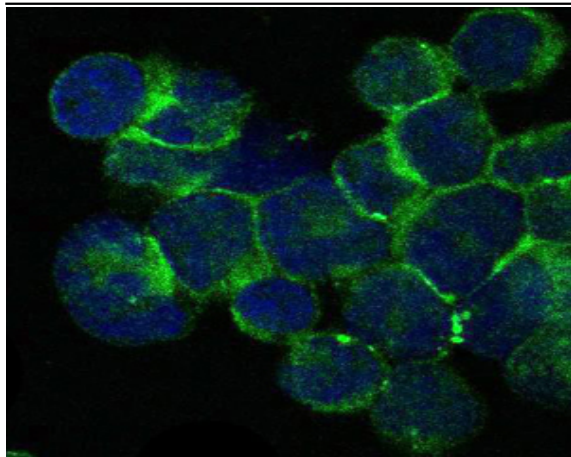
Expression : T-cell lines and natural killer cell lines.

Products Images

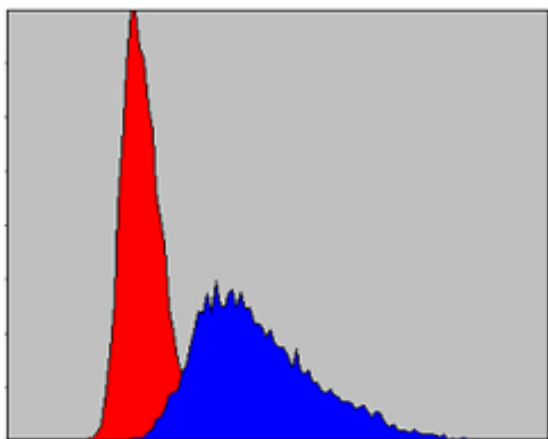
kDa
170-
130-
95-
72-
55-
43-
34-
26-
17-
11-



Western Blot analysis using Emt Monoclonal Antibody against Jurkat cell lysate.



Immunofluorescence analysis of Jurkat cells using Emt Monoclonal Antibody (green). Blue: DRAQ5 fluorescent DNA dye.



Flow cytometric analysis of Jurkat cells using Emt Monoclonal Antibody (blue) and negative control (red).

