



Bmx (phospho Tyr40) Polyclonal Antibody

Catalog No	YP-Ab-14519
Isotype	IgG
Reactivity	Human;Mouse
Applications	WB;IHC;IF;ELISA
Gene Name	BMX
Immunogen	The antiserum was produced against synthesized peptide derived from human ETK around the phosphorylation site of Tyr40. AA range:6-55
Specificity	Phospho-Bmx (Y40) Polyclonal Antibody detects endogenous levels of Bmx protein only when phosphorylated at Y40.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/40000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	PSCTK3;PSCTK2;NTK38;ETK;EC:2.7.10.2;BMX;Cytoplasmic tyrosine-protein kinase BMX;Bone marrow tyrosine kinase gene in chromosome X protein; Epithelial and endothelial tyrosine kinase
Observed Band	78kD
Calculated Molecular Weight	78kD
Cell Pathway	Cytoplasm . Localizes to the edges of spreading cells when complexed with BCAR1.
Tissue Specificity	Highly expressed in cells with great migratory potential, including endothelial cells and metastatic carcinoma cell lines.
Function	catalytic activity:ATP + a [protein]-L-tyrosine = ADP + a [protein]-L-tyrosine phosphate.,cofactor:Binds 1 zinc ion per subunit.,domain:SH2 domain mediates interaction with RUFY1.,function:Activity is required for interleukin 6 (IL-6) induced differentiation. May play a role in the growth and differentiation of hematopoietic cells. May be involved in signal transduction in endocardial and arterial endothelial cells.,induction:Activated by IL-6 through phosphatidylinositol



3-kinase (PI3-kinase) pathway. It is likely that activation occurs through binding of phosphoinositides to the PH domain.,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.,subunit:Interacts with RUFY1 and RUFY2.,tissue sp

Background

This gene encodes a non-receptor tyrosine kinase belonging to the Tec kinase family. The protein contains a PH-like domain, which mediates membrane targeting by binding to phosphatidylinositol 3,4,5-triphosphate (PIP3), and a SH2 domain that binds to tyrosine-phosphorylated proteins and functions in signal transduction. The protein is implicated in several signal transduction pathways including the Stat pathway, and regulates differentiation and tumorigenicity of several types of cancer cells. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Mar 2016],

matters needing attention

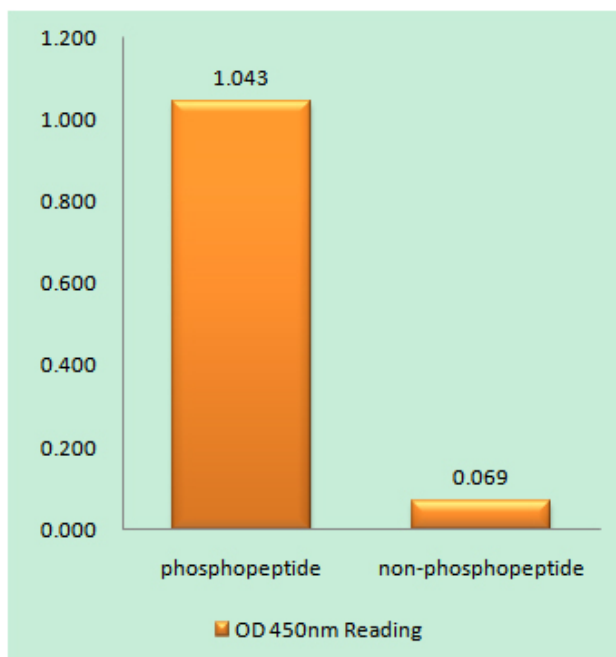
Avoid repeated freezing and thawing!

Usage suggestions

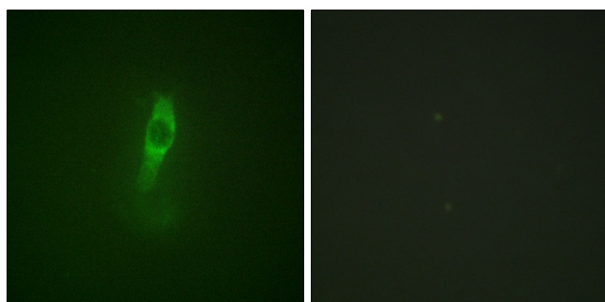
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



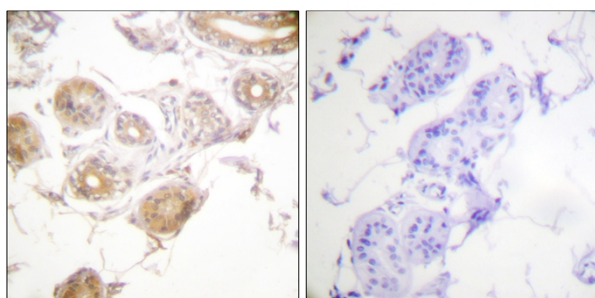
Products Images



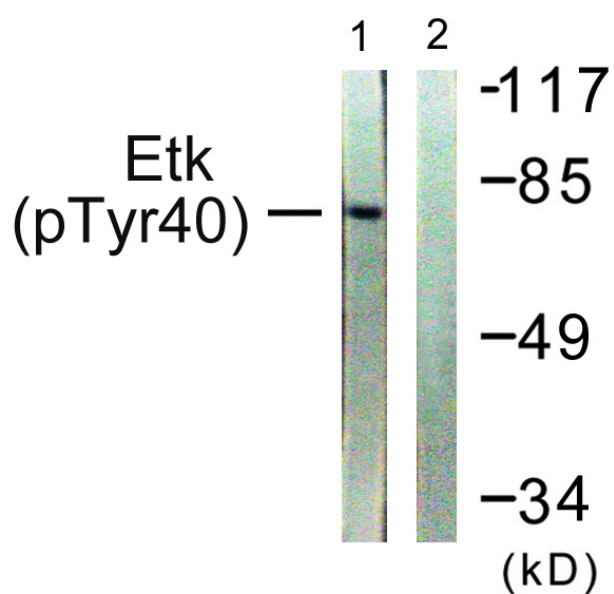
Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using ETK (Phospho-Tyr40) Antibody



Immunofluorescence analysis of NIH/3T3 cells, using ETK (Phospho-Tyr40) Antibody. The picture on the right is blocked with the phosphopeptide.



Immunohistochemistry analysis of paraffin-embedded human skin, using ETK (Phospho-Tyr40) Antibody. The picture on the right is blocked with the phosphopeptide.



Western blot analysis of lysates from HepG2 cells, using ETK (Phospho-Tyr40) Antibody. The lane on the right is blocked with the phospho peptide.