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[Marker Primary Antibody]

Rabbit Anti-Phospho-BMX (Tyr40)/FITC Conjugated antibody

Catalog Number: SL3132R-FITC

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-Phospho-BMX (Tyr40)/FITC
Immunogen:	KLH conjugated Synthesised phosphopeptide derived from human ETK around the phosphorylation site of Tyr40
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Applications:	IF=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Rat(predicted:Human,Mouse,Dog,Pig,Cow,Horse,Rabbit)
Background:	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. Multiple alternatively spliced variants, encoding the same protein, have been identified.[provided by RefSeq, Sep 2009]. **Function:** Non-receptor tyrosine kinase that plays central butdiverse modulatory roles in various signaling processes involved inthe regulation of actin reorganization, cell migration, cellproliferation and survival, cell adhesion, and apoptosis.Participates in signal transduction stimulated by growth factorreceptors, cytokine receptors, G-protein coupled receptors,

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	antigenreceptors and integrins. Induces tyrosine phosphorylation of BCAR1in response to integrin regulation. Activation of BMX by integrinsis mediated by PTK2/FAK1, a key mediator of integrin signalingevents leading to the regulation of actin cytoskeleton and cellmotility. Plays a critical role in TNF-induced angiogenesis, andimplicated in the signaling of TEK and FLT1 receptors, 2 importantreceptor families essential for angiogenesis. Required for thephosphorylation and activation of STAT3, a transcription factorinvolved in cell differentiation. Also involved in interleukin-6(IL6) induced differentiation. Plays also a role in programmingadaptive cytoprotection against extracellular stress in differentcell systems, salivary epithelial cells, brain endothelial cells,and dermal fibroblasts. May be involved in regulation ofendocytosis through its interaction with an endosomal proteinRUFY1. May also play a role in the growth and differentiation ofhematopoietic cells; as well as in signal transduction inendocardial and arterial endothelial cells. **Subunit:** Interacts with BCAR1, CAV1, MYD88, PTK2/FAK1, RUFY1,RUFY2, STAT3, TIRAP and TNFRSF1B. **Subcellular Location:** Cytoplasm. Note=Localizes to the edges ofspreading cells when complexed with BCAR1. **Tissue Specificity:** Highly expressed in cells with great migratory potential, including endothelial cells and metastatic carcinoma cell lines. **Similarity:** Belongs to the protein kinase superfamily. Tyr protein kinase family. TEC subfamily. Contains 1 Btk-type zinc finger. Contains 1 PH domain. Contains 1 protein kinase domain. Contains 1 SH2 domain. **Database links:** **Entrez Gene:** 660 Human **Entrez Gene:** 12169 Mouse **Entrez Gene:** 367786 Rat Omim: 300101 Human **SwissProt:** P51813 Human **SwissProt:** P97504 Mouse **Unigene:** 495731 Human **Unigene:** 504 Mouse Important **Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. Etk is a member of the BTK family of non-receptor protein tyrosine kinases,

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	mainly expressed in epithelial and endothelial cells, and plays an important role in regulating signal transduction processes such as cell proliferation and apoptosis. Etk is closely associated with tumor development, progression, differentiation, and proliferation.

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