

Rabbit BMX Polyclonal Antibody | anti-BMX antibody

BMX Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329548	Rabbit	Human, Mouse Predicted Reactivity: Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%)	ELISA, Western Blot

PRODUCT SYNONYMS

BMX; Polyclonal Antibody; BMX Antibody; Bmx; BMX non receptor tyrosine kinase; BMX_HUMAN; BONE MARROW KINASE; X-LINKED; Bone marrow tyrosine kinase gene in chromosome X protein; Cytoplasmic tyrosine protein kinase BMX; Cytoplasmic tyrosine-protein kinase BMX; Epithelial and endothelial tyrosine kinase; ETK; NKT38; NTK 38; NTK38; Protein tyrosine kinase BMX; PSCTK 2; PSCTK 3; PSCTK2; PSCTK3; anti-BMX antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse Predicted Reactivity: Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%)
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	BMX Antibody detects endogenous levels of total BMX. Tissue Specificity: Highly expressed in cells with great migratory potential, including endothelial cells and metastatic carcinoma cell lines.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-BMX antibody	ELISA (Peptide ELISA), WB (Western Blot)
Immunogen	A synthesized peptide derived from human BMX, corresponding to a region within N-terminal amino acids.
Conjugation	Unconjugated
Fragment	Fab fragment
Post Translational Modifications	Phosphorylated in response to protein I/II and to LPS. Phosphorylation at Tyr-566 by SRC and by autocatalysis leads to activation and is required for STAT3 phosphorylation by BMX.
Subunit Structure	Interacts with BCAR1, CAV1, MYD88, PTK2/FAK1, RUFY1, RUFY2, STAT3, TIRAP and TNFRSF1B.
Similarity	SH2 domain mediates interaction with RUFY1.Belongs to the protein kinase superfamily. Tyr protein kinase family. TEC subfamily.
Subcellular Location	Cytoplasm. Note: Localizes to the edges of spreading cells when complexed with BCAR1.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)
Western blot analysis of Etk in lysates of Jurkat , using Etk Antibody(AF4744).



WB (Western Blot)
Western blot analysis of extracts from various samples, using Etk Antibody.Lane 1: MCF7 cells, blocked with antigen-specific peptides,Lane 2: MCF7 cells,Lane 3: HepG2 cells.

ADDITIONAL INFORMATION

Related Product Information for anti-BMX antibody	Non-receptor tyrosine kinase that plays central but diverse modulatory roles in various signaling processes involved in the regulation of actin reorganization, cell migration, cell proliferation and survival, cell adhesion, and apoptosis. Participates in signal transduction stimulated by growth factor receptors, cytokine receptors, G-protein coupled receptors, antigen receptors and integrins. Induces tyrosine phosphorylation of BCAR1 in response to integrin regulation. Activation of BMX by integrins is mediated by PTK2/FAK1, a key mediator of integrin signaling events leading to the regulation of actin cytoskeleton and cell motility. Plays a critical role in TNF-induced angiogenesis, and implicated in the signaling of TEK and FLT1 receptors, 2 important receptor families essential for angiogenesis. Required for the phosphorylation and activation of STAT3, a transcription factor involved in cell differentiation. Also involved in interleukin-6 (IL6) induced differentiation. Plays also a role in programming adaptive cytoprotection against extracellular stress in different cell systems, salivary epithelial cells, brain endothelial cells, and dermal fibroblasts. May be involved in regulation of endocytosis through its interaction with an endosomal protein RUFY1. May also play a role in the growth and differentiation of hematopoietic cells; as well as in signal transduction in endocardial and arterial endothelial cells.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4502435
NCBI GeneID	660
NCBI Accession #	NP_001712.1
NCBI GenBank Nucleotide #	NM_001721.6
UniProt Accession #	P51813; O60564; Q12871; A6NIH9
Molecular Weight	78,011 Da
NCBI Official Full Name	cytoplasmic tyrosine-protein kinase BMX
NCBI Official Synonym Full Names	BMX non-receptor tyrosine kinase
NCBI Official Symbol	BMX
NCBI Official Synonym Symbols	ETK; PSCTK2; PSCTK3
NCBI Protein Information	cytoplasmic tyrosine-protein kinase BMX; NTK38 tyrosine kinase; BTK-like on X chromosome; Etk/Bmx cytosolic tyrosine kinase; epithelial and endothelial tyrosine kinase; bone marrow tyrosine kinase gene in chromosome X protein
UniProt Protein Name	Cytoplasmic tyrosine-protein kinase BMX
UniProt Gene Name	BMX
UniProt Synonym Gene Names	ETK
UniProt Entry Name	BMX_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.