

Rabbit BMX Polyclonal Antibody | anti-BMX antibody

BMX Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA323902	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

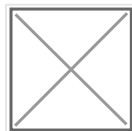
PRODUCT SYNONYMS

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, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	BMX antibody detects endogenous levels of total BMX
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	674
Applicable Applications for anti-BMX antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide
Subcellular Location	Cytoplasm.
Tissue Specificity	Highly expressed in cells with great migratory potential, including endothelial cells and metastatic carcinoma cell lines.
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)

Western blot analysis of extracts from COS-7 cells, using BMX antibody. The lane on the left is treated with the antigen-specific peptide.



IHC (Immunohistochemistry)

AAA323902 at 1/100 staining Rat heart tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



IF (Immunofluorescence)

AAA323902 staining HepG2 cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-BMX antibody	Function: 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. Subunit Structure: Interacts with BCAR1, CAV1, MYD88, PTK2/FAK1, RUFY1, RUFY2, STAT3, TIRAP and TNFRSF1B. 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. Similarity: SH2 domain mediates interaction with RUFY1. Belongs to the protein kinase superfamily. Tyr protein kinase family. TEC subfamily.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	1003701547
NCBI GeneID	660
NCBI Accession #	NP_001307795.1
NCBI GenBank Nucleotide #	NM_001320866.1
UniProt Accession #	P51813 ; O60564 ; Q12871 ; A6NIH9
Molecular Weight	Observed: 75 kD Predicted: 79 kDa
NCBI Official Full Name	cytoplasmic tyrosine-protein kinase BMX isoform 2
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
UniProt Protein Name	Cytoplasmic tyrosine-protein kinase BMX
UniProt Gene Name	BMX
UniProt Synonym Gene Names	ETK

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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/bmx-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/323902>