

Rabbit anti-Human, Mouse ETK Polyclonal Antibody | anti-ETK antibody

Phospho-ETK (Tyr566) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA321647	Rabbit	Human, Mouse	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

ETK; Polyclonal Antibody; Phospho-ETK (Tyr566) 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; NKT38; NTK 38; NTK38; Protein tyrosine kinase BMX; PSCTK 2; PSCTK 3; PSCTK2; PSCTK3; anti-ETK antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Specificity	Phospho-ETK (Tyr566) antibody detects endogenous levels of ETK only when phosphorylated at Tyrosine 566
Purity/Purification	From purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns.
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-ETK antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human ETK around the phosphorylation site of Tyrosine 566
Subcellular Location	Cytoplasm.
Tissue Specificity	Highly expressed in cells with great migratory potential, including endothelial cells and metastatic carcinoma cell lines.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog
Similarity	Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%)
Conjugation	Unconjugated
Epitope	Phospho Tyr566
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)
AAA321647 at 1/100 staining human Skin carcinoma tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue 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.



WB (Western Blot)
Western blot analysis of ETK phosphorylation expression in Serum treated HeLa whole cell lysates, The lane on the left is treated with the antigen-specific peptide.



WB (Western Blot)
Western blot analysis of Phospho-ETK (Tyr566) Antibody expression in Serum treated Hela cells lysates. The lane on the right is treated with the antigen-specific peptide.



IF (Immunofluorescence)
AAA321647 staining HepG2 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) Ab, diluted at 1/600, was used as the secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-ETK antibody	Description: A tyrosine kinase of the Tec family. Activity is required for IL6-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. 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 autocalysis 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: 78 kDa 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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/polyclonal/etk-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/321647>