

Datasheet for ABIN965688

anti-BMX antibody (C-Term, Cytoplasmic)



[Go to Product page](#)

4 Publications

Overview

Quantity:	0.1 mg
Target:	BMX
Binding Specificity:	C-Term, Cytoplasmic
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This BMX antibody is un-conjugated
Application:	Immunohistochemistry (IHC)

Product Details

Immunogen:	Polyclonal antibody produced in rabbits immunizing with a synthetic peptide corresponding to C-terminal residues of human BMX (Cytoplasmic tyrosine-protein kinase BMX or Bone marrow tyrosine kinase gene in chromosome X protein)
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Target Details

Target:	BMX
Alternative Name:	BMX (BMX Products)
Background:	The activity of BMX (Cytoplasmic tyrosine-protein kinase BMX or Bone marrow tyrosine kinase gene in chromosome X protein) is required for interleukin 6 (IL-6) induced differentiation. BMX may play a role in the growth and differentiation of hematopoietic cells. BMX may be involved in signal transduction in endocardial and arterial endothelial cells. BMX binds 1 zinc ion per

Target Details

subunit and interacts with RUFY1 and RUFY2. BMX is preferentially expressed in epithelial and endothelial cells. BMX is 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. SH2 domain mediates interaction with RUFY1 and BMX belongs to the protein kinase superfamily, Tyr protein kinase family and TEC subfamily.

Synonyms: ETK (Epithelial and endothelial tyrosine kinase)

Application Details

Restrictions: For Research Use only

Handling

Storage: 4 °C

Publications

Product cited in: Nore, Mattsson, Antonsson, Bäckesjö, Westlund, Lennartsson, Hansson, Löw, Rönnstrand, Smith: "Identification of phosphorylation sites within the SH3 domains of Tec family tyrosine kinases." in: **Biochimica et biophysica acta**, Vol. 1645, Issue 2, pp. 123-32, (2003) ([PubMed](#)).

Yang, Kim, Wu, Qiu: "Interaction between tyrosine kinase Etk and a RUN domain- and FYVE domain-containing protein RUFY1. A possible role of ETK in regulation of vesicle trafficking." in: **The Journal of biological chemistry**, Vol. 277, Issue 33, pp. 30219-26, (2002) ([PubMed](#)).

Qiu, Robinson, Pretlow, Kung et al.: "Etk/Bmx, a tyrosine kinase with a pleckstrin-homology domain, is an effector of phosphatidylinositol 3'-kinase and is involved in interleukin 6-induced neuroendocrine differentiation of prostate ..." in: **Proceedings of the National Academy of Sciences of the United States of America**, Vol. 95, Issue 7, pp. 3644-9, (1998) ([PubMed](#)).

Tamagnone, Lahtinen, Mustonen, Virtaneva, Francis, Muscatelli, Alitalo, Smith, Larsson, Alitalo: "BMX, a novel nonreceptor tyrosine kinase gene of the BTK/ITK/TEC/TKX family located in chromosome Xp22.2." in: **Oncogene**, Vol. 9, Issue 12, pp. 3683-8, (1994) ([PubMed](#)).