

**Product Name: Bmx (phospho Tyr566) Rabbit Polyclonal Antibody****Catalog #: APRab04328**

For research use only.

**Summary**

|                      |                                                                                                   |
|----------------------|---------------------------------------------------------------------------------------------------|
| <b>Description</b>   | Rabbit polyclonal Antibody                                                                        |
| <b>Host</b>          | Rabbit                                                                                            |
| <b>Application</b>   | WB,IHC,ICC/IF,ELISA                                                                               |
| <b>Reactivity</b>    | Human,Mouse                                                                                       |
| <b>Conjugation</b>   | Unconjugated                                                                                      |
| <b>Modification</b>  | Phosphorylated                                                                                    |
| <b>Isotype</b>       | IgG                                                                                               |
| <b>Clonality</b>     | Polyclonal                                                                                        |
| <b>Form</b>          | Liquid                                                                                            |
| <b>Concentration</b> | 1mg/ml                                                                                            |
| <b>Storage</b>       | Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.                       |
| <b>Shipping</b>      | Ice bags                                                                                          |
| <b>Buffer</b>        | Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N. |
| <b>Purification</b>  | Affinity purification                                                                             |

**Application**

|                         |                                                                        |
|-------------------------|------------------------------------------------------------------------|
| <b>Dilution Ratio</b>   | WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:50-1:200,ELISA 1:5000-1:20000 |
| <b>Molecular Weight</b> | 78kDa                                                                  |

**Antigen Information**

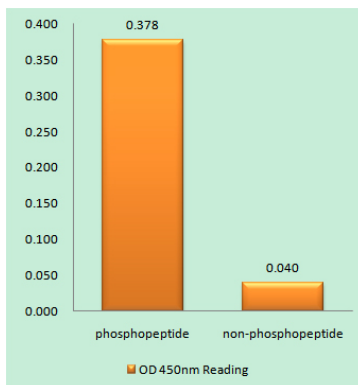
|                          |                                                                                                                                                                |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>         | BMX                                                                                                                                                            |
| <b>Alternative Names</b> | BMX; Cytoplasmic tyrosine-protein kinase BMX; Bone marrow tyrosine kinase gene in chromosome X protein; Epithelial and endothelial tyrosine kinase; ETK; NTK38 |
| <b>Gene ID</b>           | 660.0                                                                                                                                                          |
| <b>SwissProt ID</b>      | P51813                                                                                                                                                         |
| <b>Immunogen</b>         | The antiserum was produced against synthesized peptide derived from human ETK around the phosphorylation site of Tyr566. AA range:532-581                      |

**Background**

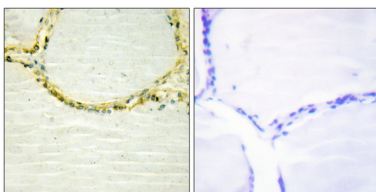
This gene encodes a non-receptor tyrosine kinase belonging to the Tec kinase family. The protein contains a PH-like domain, which mediates membrane targeting by binding to phosphatidylinositol 3,4,5-triphosphate (PIP3), and a SH2 domain that binds to tyrosine-phosphorylated proteins and functions in 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. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Mar 2016],catalytic activity:ATP + a [protein]-L-tyrosine = ADP + a [protein]-L-tyrosine phosphate.,cofactor:Binds 1 zinc ion per subunit.,domain:SH2 domain mediates interaction with RUFY1.,function:Activity is required for interleukin 6 (IL-6) 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.,induction: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.,similarity:Belongs to the protein kinase superfamily. Tyr protein kinase family. TEC subfamily.,similarity:Contains 1 Btk-type zinc finger.,similarity:Contains 1 PH domain.,similarity:Contains 1 protein kinase domain.,similarity:Contains 1 SH2 domain.,subunit:Interacts with RUFY1 and RUFY2.,tissue specificity:Preferentially expressed in epithelial and endothelial cells.,

## Research Area

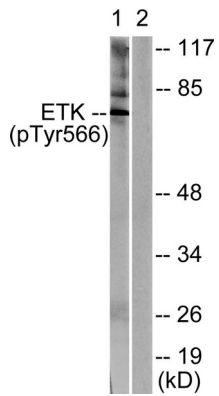
## Image Data



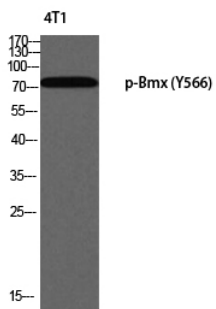
Enzyme-Linked Immunosorbent Assay ( Phospho-ELISA ) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right) , using ETK (Phospho-Tyr566) Antibody



Immunohistochemistry analysis of paraffin-embedded human thyroid gland, using ETK (Phospho-Tyr566) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from HeLa cells treated with Serum 20% 15', using ETK (Phospho-Tyr566) Antibody. The lane on the right is blocked with the phospho peptide.



Western blot analysis of 4T1 using p-Bmx (Y566) antibody.