

DESCRIPTION

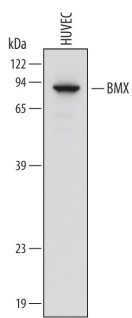
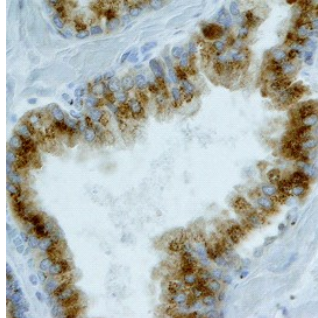
Species Reactivity	Human
Specificity	Detects human BMX in Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human BMX Met1-Gln215 Accession # P51813
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
Western Blot	1 µg/mL	See Below
Immunohistochemistry	5-15 µg/mL	See Below

DATA

<p>Western Blot</p>  <p>Detection of Human BMX by Western Blot. Western blot shows lysates of HUVEC human umbilical vein endothelial cells. PVDF membrane was probed with 1 µg/mL of Human BMX Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5887) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for BMX at approximately 80 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.</p>	<p>Immunohistochemistry</p>  <p>BMX in Human Prostate. BMX was detected in immersion fixed paraffin-embedded sections of human prostate using Human BMX Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5887) at 3 µg/mL overnight at 4 °C. Before incubation with the primary antibody, tissue was subjected to heat-induced epitope retrieval using Antigen Retrieval Reagent-Basic (Catalog # CTS013). Tissue was stained using the Anti-Sheep HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS019) and counterstained with hematoxylin (blue). Specific staining was localized to the cytoplasm of epithelial cells. View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.</p>
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PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

BMX (Bone marrow tyrosine kinase gene in chromosome X protein; also ETK and NTK38) is a 76-85 kDa member of the TEC subfamily, Tyr protein kinase family of enzymes. It is a cytoplasmic endothelial and epithelial cell kinase that induces STAT phosphorylation in a Jak-independent manner, and regulates cytokine production via mRNA stabilization. Human BMX is 675 amino acids (aa) in length. It contains one PH domain whose ligation induces activation (aa 6-109), a zinc-finger region (aa 113-149), two autophosphorylation sites at Tyr216 and Tyr224, an SH3 and SH2 domain (aa 213-392) and a kinase catalytic site (aa 417-675). BMX undergoes proteolysis by caspase 3 to generate a 35 kDa N-terminal (aa 1-242) fragment, and a 50 kDa C-terminal (aa 243-675) fragment with enhanced kinase activity.