Human BMX Antibody

Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: AF5887

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human BMX in Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-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 either lyophilized or as a 0.2 μm filtered solution in PBS.

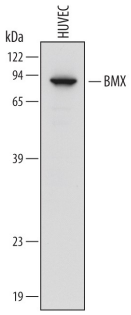
APPLICATIONS

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

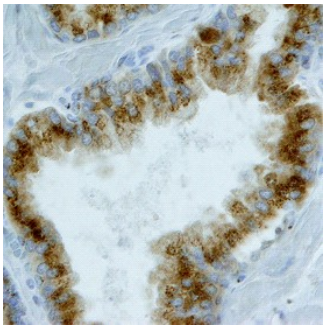
DATA

Western Blot



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.

Immunohistochemistry



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.

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.** ● 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.

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