

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
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide
*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.	

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.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunohistochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

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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