

DESCRIPTION

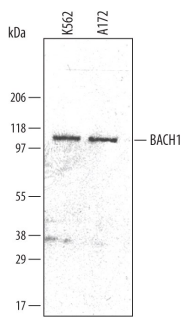
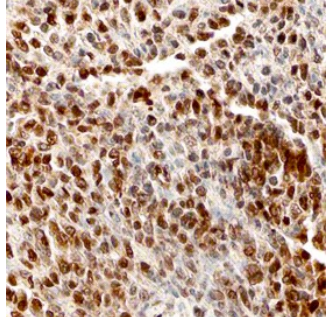
Species Reactivity	Human
Specificity	Detects human BACH1 in Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human BACH1 Ser133-Glu513 Accession # O14867
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. 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	0.2 µg/mL	See Below
Immunohistochemistry	5-15 µg/mL	See Below

DATA

<p>Western Blot</p>  <p>Detection of Human BACH1 by Western Blot. Western blot shows lysates of K562 human chronic myelogenous leukemia cell line and A172 human glioblastoma cell line. PVDF membrane was probed with 0.2 µg/mL of Human/Mouse BACH1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5776) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). A specific band was detected for BACH1 at approximately 110 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.</p>	<p>Immunohistochemistry</p>  <p>BACH1 in Human Lung Cancer Tissue. BACH1 was detected in immersion fixed paraffin-embedded sections of human lung cancer tissue using Human/Mouse BACH1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5776) at 10 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-Goat HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS008) and counterstained with hematoxylin (blue). 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

BACH1 (BTB and CNC homolog 1; also basic leucine zipper transcription factor 1) is a ubiquitously expressed member of the Bach family of transcription factors. Although its predicted MW is 82 kDa, it runs anomalously at 110 kDa in SDS-PAGE. BACH1 forms non-covalent homodimers, and heterodimers with Maf oncoproteins and p53-related proteins. It apparently serves as an architectural component for gene regulatory protein complexes. Human BACH1 is 736 amino acids (aa) in length. It contains a protein-interaction BTB domain (aa 24-127), a DNA-binding motif (aa 562-577), and a Leu-zipper domain (aa 585-607). This molecule should not be confused with Bach1/Fancj/Brip1 helicase. There are two BACH1 splice variants with a 24 and 31 aa substitution for aa 593-736, respectively. Over aa 133-513, human BACH1 shares 75% aa identity with mouse BACH1.