

#### DESCRIPTION

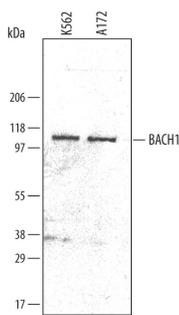
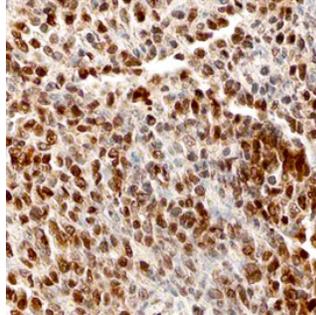
<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human BACH1 in Western blots.
<b>Source</b>	Polyclonal Goat IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human BACH1 Ser133-Glu513 Accession # O14867
<b>Formulation</b>	Lyophilized from 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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Western Blot</b>	0.2 µg/mL	See Below
<b>Immunohistochemistry</b>	5-15 µg/mL	See Below

#### DATA

<p><b>Western Blot</b></p>  <p><b>Detection of Human BACH1 by Western Blot.</b> 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 <a href="#">Immunoblot Buffer Group 1</a>.</p>	<p><b>Immunohistochemistry</b></p>  <p><b>BACH1 in Human Lung Cancer Tissue.</b> 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 &amp; Tissue Staining Kit (brown; Catalog # CTS008) and counterstained with hematoxylin (blue). View our protocol for <a href="#">Chromogenic IHC Staining of Paraffin-embedded Tissue Sections</a>.</p>
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#### PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.2 mg/mL in sterile PBS.
<b>Shipping</b>	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
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>• 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>• 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>• 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

#### 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.