

## DESCRIPTION

<b>Species Reactivity</b>	Human/Mouse/Rat
<b>Specificity</b>	Detects human, mouse and rat BTF3 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 BTF3 Lys46-Asn206 Accession # P20290
<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.

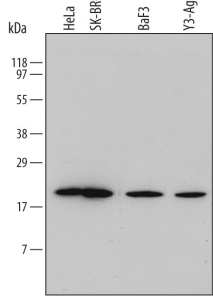
## APPLICATIONS

**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.

	Recommended Concentration	Sample
<b>Western Blot</b>	0.5 µg/mL	See Below
<b>Immunohistochemistry</b>	5-15 µg/mL	See Below

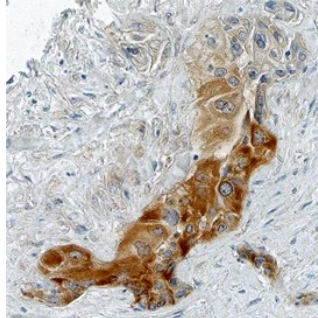
## DATA

**Western Blot**



**Detection of Human/Mouse/Rat BTF3 by Western Blot.** Western blot shows lysates of HeLa human cervical epithelial carcinoma cell line, SK-BR-3 human breast cancer cell line, BaF3 mouse pro-B cell line, and Y3-Ag rat myeloid cell line. PVDF membrane was probed with 0.5 µg/mL of Human/Mouse/Rat BTF3 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5747) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). A specific band was detected for BTF3 at approximately 22 kDa (as indicated). This experiment was conducted under reducing conditions and using [Immunoblot Buffer Group 1](#).

**Immunohistochemistry**



**BTF3 in Human Pancreas Cancer Tissue.** BTF3 was detected in immersion fixed paraffin-embedded sections of human pancreas cancer tissue using Human/Mouse/Rat BTF3 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5747) 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-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](#).

## 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

BTF3 (basic transcription factor 3; also nascent polypeptide-associated complex  $\beta$ /NACB) is a member of the NAC-beta family of transcription factors. It is ubiquitously expressed and involved in the initiation of gene transcription by RNA polymerase. BTF3 also appears to impact estrogen receptor alpha (ER $\alpha$ ) stimulation of gene activation by binding to both ligand activated and non-ligand activated ER $\alpha$ . Human BTF3 is 206 amino acids (aa) in length and contains one potential phosphorylation site at Ser30, and a NACB domain (aa 82-147). There are multiple potential splice variants. Two variants show alternate start sites, one at Met45 (called BTF3b), and another at Met108.