

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects human, mouse and rat BTF3 in Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human BTF3 Lys46-Asn206 Accession # P20290
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.

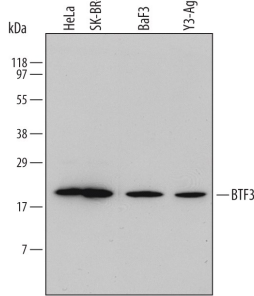
APPLICATIONS

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	0.5 µg/mL	See Below
Immunohistochemistry	5-15 µg/mL	See Below

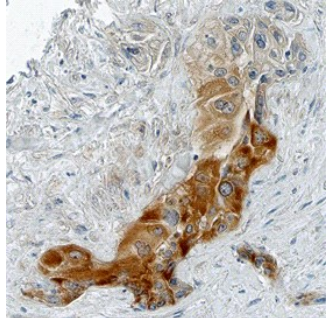
DATA

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

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

BTF3 (basic transcription factor 3; also nascent polypeptide-associated complex β/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 (ERα) stimulation of gene activation by binding to both ligand activated and non-ligand activated ERα. 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.