

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects endogenous human, mouse and rat BNIP3L in Western blots. In Western blots, less than 10% cross-reactivity to recombinant human BNIP3L is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human BNIP3L Ser2-Glu184 Accession # O60238
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 either lyophilized or as a 0.2 µm filtered solution in PBS.

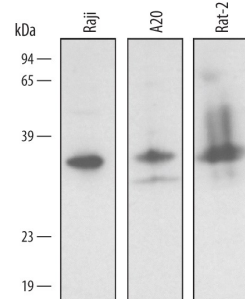
APPLICATIONS

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
Western Blot	1 µg/mL	See Below
Immunocytochemistry	5-15 µg/mL	See Below

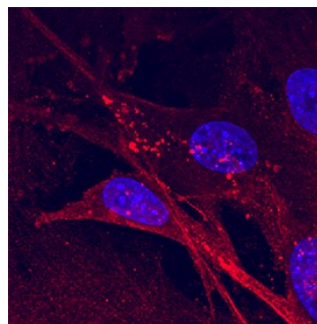
DATA

Western Blot



Detection of Human/Mouse/Rat BNIP3L by Western Blot. Western blot shows lysates of Raji human Burkitt's lymphoma cell line, A20 mouse B cell lymphoma cell line, and Rat-2 rat embryonic fibroblast cell line. PVDF membrane was probed with 1 µg/mL of Goat Anti-Human/Mouse/Rat BNIP3L Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4030) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). A specific band was detected for BNIP3L at approximately 35kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 2.

Immunocytochemistry



BNIP3L in HeLa Human Cell Line. BNIP3L was detected in immersion fixed HeLa human cervical epithelial carcinoma cell line using Goat Anti-Human/Mouse/Rat BNIP3L Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4030) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Goat IgG Secondary Antibody (red; Catalog # NL001) and counterstained with DAPI (blue). Specific staining was localized to cytoplasm. View our protocol for [Fluorescent ICC Staining of Cells on Coverslips](#).

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

Bcl-2/adenovirus E1B 19 kDa protein-interacting protein 3-like (BNIP3L) also known as BNIP3 alpha and NIP3-like protein X (Nix), is a proapoptotic member of BNIP3 protein family. BNIP3L is a functional homolog of BNIP3 and both proteins contain a single Bcl-2 homology 3 (BH3) domain. BNIP3L is a 219 amino acid (aa), 24 kDa (predicted) protein that contains a C-terminal transmembrane domain required for mitochondrial localization, homodimerisation, and regulation of its proapoptotic function. BNIP3L may antagonize the activity of BCL2 family antiapoptotic proteins by directly interacting with proteins such as viral E1B-19K and cellular Bcl-2 and Bcl-xL. BNIP3L shares 56% amino acid sequence identity with BNIP3 and 98% with mouse and rat BNIP3L.