

DESCRIPTION

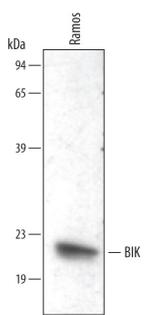
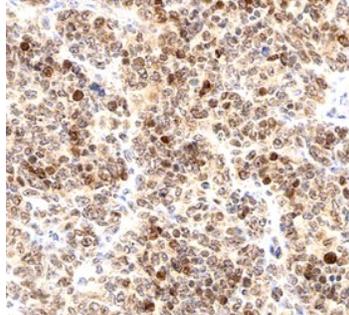
Species Reactivity	Human
Specificity	Detects human BIK in Western Blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human BIK Met1-Gln135 Accession # Q13323
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. 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
Immunohistochemistry	5-15 µg/mL	See Below

DATA

<p>Western Blot</p>  <p>Detection of Human BIK by Western Blot. Western blot shows lysates of Ramos human Burkitt's lymphoma cell line. PVDF membrane was probed with 1 µg/mL of Sheep Anti-Human BIK Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5474) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for BIK at approximately 22 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 2.</p>	<p>Immunohistochemistry</p>  <p>BIK in Human Lymphoma. BIK was detected in immersion fixed paraffin-embedded sections of human lymphoma tissue using Sheep Anti-Human BIK Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5474) 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-Sheep HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS019) 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	<p>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</p> <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-interacting killer (BIK; also known as NBK, BP4 and BIP-1) is a 19 kDa member of the BH3-only subfamily, Bcl-2 family of proteins. It is widely expressed, and serves as an initiator of cell death. It apparently participates in apoptosis by sequestering antiapoptotic cytoplasmic proteins of the Bcl-2 family and in autophagy by regulating cytosolic calcium levels. Human BIK-1 is 160 amino acids (aa) in length. It contains one BH3 domain (aa 57-74), a "death segment" (aa 121-134) and a transmembrane domain (aa 136-156). BIK is likely to embed in both outer mitochondrial and ER membranes. Over amino acids 1-135, human BIK shares only 45% aa identity with mouse BIK.