Human IkB-α Antibody

Monoclonal Mouse IgG_1 Clone # 417208

Catalog Number: MAB4299

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human IkB-α in Western blots.
Source	Monoclonal Mouse IgG_1 Clone # 417208
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant human IkB-α Met1-Leu317 Accession # P25963
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.

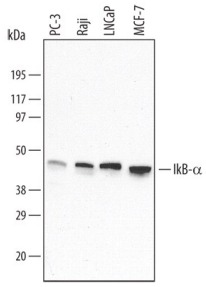
APPLICATIONS

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	0.1 µg/mL	See Below
Immunohistochemistry	5-25 µg/mL	See Below
Simple Western	1 µg/mL	See Below

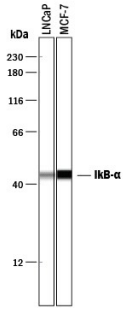
DATA

Western Blot



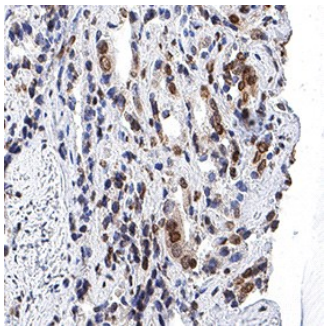
Detection of Human IkB-α by Western Blot. Western blot shows lysates of Raji human Burkitt's lymphoma cell line, MCF-7 human breast cancer cell line, PC-3 human prostate cancer cell line, and LNCaP human prostate cancer cell line. PVDF membrane was probed with 0.1 µg/mL of Mouse Anti-Human IkB-α Monoclonal Antibody (Catalog # MAB4299) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for IkB-α at approximately 44 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 4.

Simple Western



Detection of Human IkB-α by Simple Western™. Simple Western lane view shows lysates of LNCaP human prostate cancer cell line and MCF-7 human breast cancer cell line, loaded at 0.5 mg/mL. A specific band was detected for IkB-α at approximately 44 kDa (as indicated) using 1 µg/mL of Mouse Anti-Human IkB-α Monoclonal Antibody (Catalog # MAB4299). This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.

Immunohistochemistry



IkB-α in Human Prostate Cancer Tissue. IkB-α was detected in immersion fixed paraffin-embedded sections of human prostate cancer tissue using Mouse Anti-Human IkB-α Monoclonal Antibody (Catalog # MAB4299) at 5 µg/mL for 1 hour at room temperature followed by incubation with the Anti-Mouse IgG VisUCyte™ HRP Polymer Antibody (Catalog # VC001). Tissue was stained using DAB (brown) and counterstained with hematoxylin (blue). Specific staining was localized to cytoplasm and nuclei in cancer cells. View our protocol for IHC Staining with VisUCyte HRP Polymer Detection Reagents.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 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.** ● 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.

bio-techne
bio-techne.com
Global info@bio-techne.com techsupport@bio-techne.com
North America TEL 800 343 7475 Europe | Middle East | Africa TEL +44 (0)1235 529449
China info.cn@bio-techne.com TEL +86 (21) 52380373
Rest of World bio-techne.com/find-us/distributors TEL +1 612 379 2956

Human IkB-α Antibody

Monoclonal Mouse IgG_1 Clone # 417208

Catalog Number: MAB4299

BACKGROUND

NFκB inhibitor alpha (IkB-α) inhibits the NFκB complex by binding and sequestering it in the cytoplasm. Upon stimulation, IkB-α is phosphorylated on serine residues marking it for degradation by the ubiquitin pathway. Following IkB-α degradation, the NFκB complex is able to translocate to the nucleus and activate transcription.

bio-techne
bio-techne.com
Global info@bio-techne.com techsupport@bio-techne.com
North America TEL 800 343 7475 Europe | Middle East | Africa TEL +44 (0)1235 529449
China info.cn@bio-techne.com TEL +86 (21) 52380373
Rest of World bio-techne.com/find-us/distributors TEL +1 612 379 2956