BioLegend
The path to legendary discovery™

Product Data Sheet

Purified anti-NF-κB p50

Catalog # / Size: 616701 / 25 µg
616702 / 100 µg

Clone: 4D1

Isotype: Mouse IgG1, κ

Immunogen: recombinant full-length human NF-κB p50

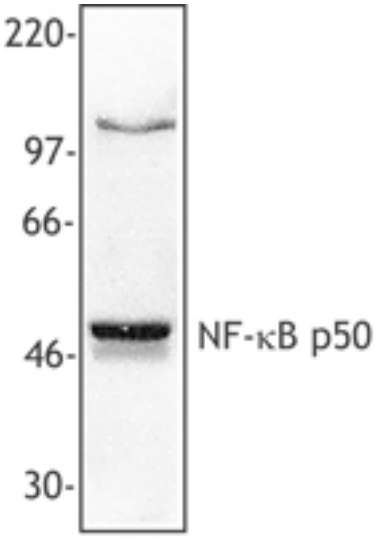
Reactivity: Human

Preparation: The antibody was purified by affinity chromatography.

Formulation: This antibody is provided in phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide. Final antibody concentration is 0.5 mg/ml.

Concentration: 0.5 mg/ml

Storage: Upon receipt, store at 4°C.



MOLT4 cell extract was resolved by electrophoresis, transferred to nitrocellulose, and probed with mouse anti-NF-κB p50 antibody (clone 4D1). Proteins were visualized using a goat anti-mouse secondary conjugated to HRP and a chemiluminescence detection system.

Applications:

Applications: WB, IF

Recommended Usage: Each lot of this antibody is quality control tested by Western blotting. Western blotting, suggested working dilution(s): Use 2.5 µg antibody per 5 ml antibody dilution buffer for each mini-gel. It is recommended that the reagent be titrated for optimal performance for each application.

Application Notes: Additional reported applications (for the relevant formats) include: immunofluorescence[1] on the Amnis ImageStream 100 Imaging Flow Cytometer.

Application References:
1. Huang F, *et al.* 2007. *J. Immunol.* 179:6504. (IF) PubMed
2. Cao YA, *et al.* 2008. *J. Biol. Chem.* 283:15309. PubMed
3. Lin D, *et al.* 2012. *J Biol Chem.* 287:4299. PubMed.

Description: NF-κB/p50 (nuclear factor kappa light chain enhancer in B cells p50, NF-κB1) is a member of the Rel/dorsal family. This ubiquitously expressed nuclear protein is one subunit of the NF-kappa B complex consisting of a 65 kD transactivating subunit and a 50 kD DNA binding subunit. Both subunits are derived from larger precursor proteins. NF-κB acts as a transcriptional activator and was originally identified as an activator of kappa light chain in B cells. NF-κB/p50 is bound (with p65) to IκB inhibitor in cytoplasm in inactive form. Phosphorylation of IκB releases and NF-κB which goes to the nucleus to activate gene expression. NF-κB can be activated with LPS, TNF-α, phorbol ester, or IL-1. The 4D1 monoclonal antibody reacts with human NF-κB p50 and has been shown to be useful for Western blotting.

Antigen References:
1. Baldwin AS, *et al.* 1996. *Annu. Rev. Immunol.* 14:649 (review).
2. Chen F, *et al.* 1999. *Clin. Chem.* 45:7 (review).

Related Products:

Product	Clone	Application
HRP Goat anti-mouse IgG (minimal x-reactivity)	Poly4053	ELISA, IHC, WB
Purified anti-NF-κB p50	Poly6197	WB
Purified anti-NF-κB p65	Poly6226	IF, IHC, IP, WB
Purified anti-NF-κB p65	6H5	WB

BioLegend Inc., 9727 Pacific Heights Blvd, San Diego, CA 92121 www.biolegend.com
Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587