BT LAB
Bioassay Technology Laboratory
Optimize Your Research

NFKB1 Monoclonal Antibody

Description

Product type	Antibody
Code	BT-MCA3715
Host	Mouse
Isotype	Mouse IgG2a
Size	100μL, 50μL
Immunogen	Purified recombinant fragment of human NFKB1 expressed in E. Coli.
Mol wt	50kDa|105kDa
Species reactivity	Human
Clonality	Monoclonal
Recommended application	WB,IHC,ICC,FCM
Concentration	N/A
Full name	N/A
Synonyms	p50;KBF1;p105;EBP-1;MGC54151;NFKB-p50;NFkappaB;NF-kappaB;NFKB-p105;NF-kappa-B

This product is for research use only, not for use in human, therapeutic or diagnostic procedure.

Background

This gene encodes a 105 kD protein which can undergo cotranslational processing by the 26S proteasome to produce a 50 kD protein. The 105 kD protein is a Rel protein-specific transcription inhibitor and the 50 kD protein is a DNA binding subunit of the NF-kappa-B (NFKB) protein complex. NFKB is a transcription regulator that is activated by various intra- and extra-cellular stimuli such as cytokines, oxidant-free radicals, ultraviolet irradiation, and bacterial or viral products. Activated NFKB translocates into the nucleus and stimulates the expression of genes involved in a wide variety of biological functions. Inappropriate activation of NFKB has been associated with a number of inflammatory diseases while persistent inhibition of NFKB leads to inappropriate immune cell development or delayed cell growth. Two transcript variants encoding different isoforms have been found for this gene.

Recommended Dilution

WB: 1:500 - 1:2000

IHC-p: 1:200 - 1:1000

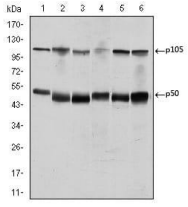
ICC: 1:200 - 1:1000

FCM: 1:200 - 1:400

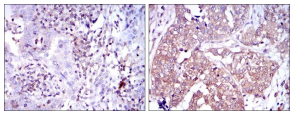
ELISA: 1:10000

Not yet tested in other applications.

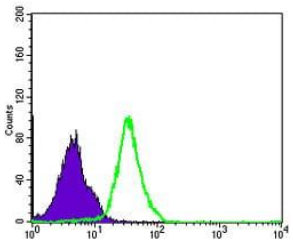
Images



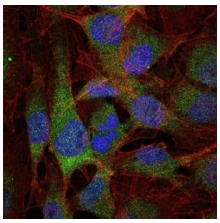
Western blot analysis using NFKB1 mouse mAb against K562 (1), Jurkat (2), A431 (3), Hela (4), THP-1 (5) and MCF-7 (6) cell lysate.



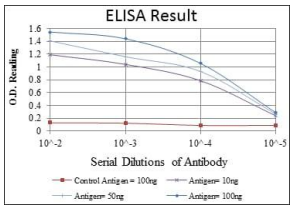
Immunohistochemical analysis of paraffin-embedded human intima cancer tissues (left) and human bladder cancer tissues (right) using NFKB1 mouse mAb with DAB staining.



Flow cytometric analysis of MCF-7 cells using NFKB1 mouse mAb (green) and negative control (purple).



Immunofluorescence analysis of U251 cells using NFKB1 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.



Red: Control Antigen (100ng); Purple: Antigen (10ng); Green: Antigen (50ng); Blue: Antigen (100ng);

Storage

Store at 4°C short term. Aliquot and store at -20°C long term.

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