Data Sheet (Cat.No.TMAB-01233)

Anti-NFKB1 Polyclonal Antibody

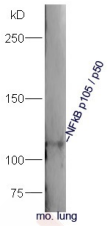
Product Details

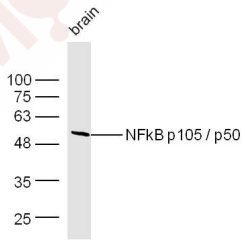
Ig Type:	IgG
Reactivity:	Human,Mouse,Rat (predicted:Chicken,Dog,Pig,Cow)
Molecular Weight:	Theoretical: 48/105 kDa. Actual: 105,50 kDa.
Purification:	Protein A purified

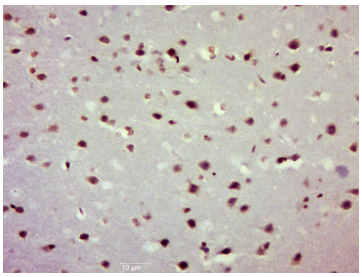
Applications

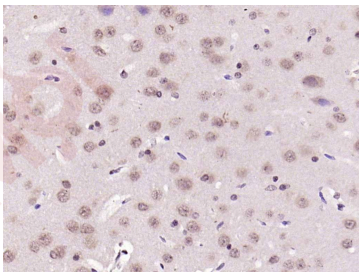
Verified Activity:	1. Sample: Lung (Mouse) lysate at 30 µg; Primary: Anti-NFkB p105/p50 (TMAB-01233) at 1:300 dilution; Secondary: HRP conjugated Goat-Anti-rabbit Igg (secondary antibody) at 1: 5000 dilution; Predicted band size: 48/105 kDa Observed band size: 110 kDa 2. Sample: Brain (Mouse) lysate at 30 µg; Primary: Anti-NFkB p105/p50 (TMAB-01233) at 1:300 dilution; Secondary: HRP conjugated Goat-Anti-rabbit Igg (secondary antibody) at 1: 5000 dilution; Predicted band size: 48/105 kDa Observed band size: 50 kD 3. Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (NFkB p50) Polyclonal Antibody, Unconjugated (TMAB-01233) at 1:500 overnight at 4°C, followed by a conjugated secondary for 20 min and DAB staining. 4. Paraformaldehyde-fixed, paraffin embedded (rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (NFkB p105) Polyclonal Antibody, Unconjugated (TMAB-01233) at 1:200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructionsand DAB staining. 5. Paraformaldehyde-fixed, paraffin embedded (rat bladder); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (NFkB p105) Polyclonal Antibody, Unconjugated (TMAB-01233) at 1:200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructionsand DAB staining. 6. Paraformaldehyde-fixed, paraffin embedded (rat uterus); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (NFkB p105) Polyclonal Antibody, Unconjugated (TMAB-01233) at 1:200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructionsand DAB staining. 7. Sample: Lane 1: Human Raji cell lysates Lane 2: Human MCF-7 cell lysates Lane 3: Human Jurkat cell lysates Primary: Anti-NFKB1 (TMAB-01233) at 1/1000 dilution

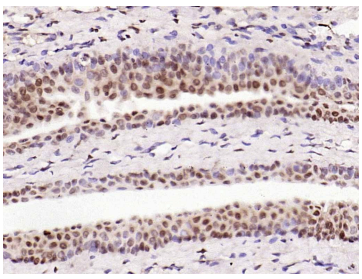
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 48/105 kDa
Observed band size: 135 kDa

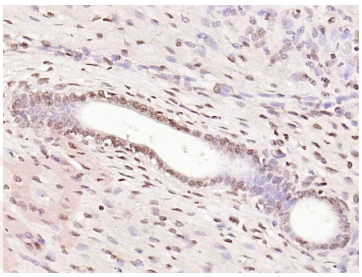


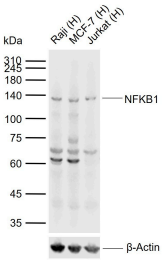












Application:	IF,IHC-Fr,IHC-P,WB
Recommended	WB: 1:500-2000; IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500

Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	KLH conjugated synthetic peptide: human Nuclear factor NF-kappa-B p50 subunit
Antigen Species:	Human
Gene ID:	4790
Uniprot ID:	P19838
Synonyms:	Nuclear factor NF-kappa-B p105 subunit;Nuclear factor of kappa light polypeptide gene enhancer in B-cells 1;DNA-binding factor KBF1;EBP-1;NFKB1
Biology Area:	p50,NFkB pathway,p50,NFkB pathway,Transcription Factors,Macrophage / Inflamm.,NFkB Pathway

Research 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. [provided by RefSeq, Sep 2009].

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