

## Anti-NFkB/NFKB1 p105/p50 Antibody Picoband®

Catalog Number: PA2111

### About Nfkb1

Nuclear factor NF-kappa-B p105 subunit, also called EBP-1 is a protein that in humans is encoded by the NFKB1 gene. By fluorescence in situ hybridization, the gene was assigned to human chromosome 4q24. NF-kappa-B is a pleiotropic transcription factor present in almost all cell types and is the endpoint of a series of signal transduction events that are initiated by a vast array of stimuli related to many biological processes such as inflammation, immunity, differentiation, cell growth, tumorigenesis and apoptosis. NFKB1 appears to have dual functions such as cytoplasmic retention of attached NF-kappa-B proteins by p105 and generation of p50 by a cotranslational processing.

### Overview

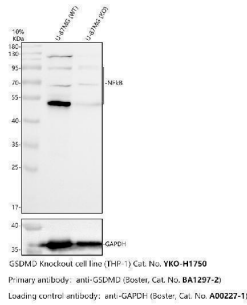
Product Name	Anti-NFkB/NFKB1 p105/p50 Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-NFkB/NFKB1 p105/p50 Antibody catalog # PA2111. Tested in IHC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains antibody formulated with stabilizing components, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.01mg Thimerosal, 0.01mg NaN <sub>3</sub> . *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P25799

### Technical Details

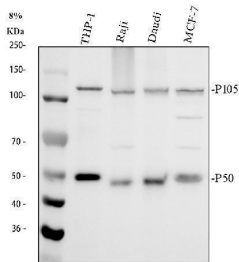
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of mouse NFkB/NFKB1 p105/p50, identical to the related rat sequence, and different from the related human sequence by one amino acid.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western

	blot.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.1-0.5ug/ml, Human Immunohistochemistry (Paraffin-embedded Section), 2-5ug/ml, Human, Mouse, Rat

## Anti-NFkB/NFKB1 p105/p50 Antibody Picoband® (PA2111) Images

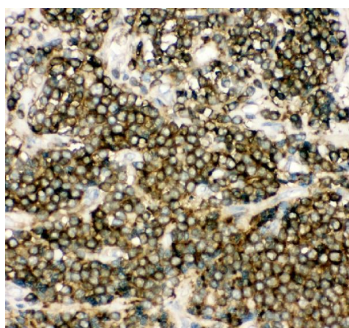


Western blot analysis of NFkB/NFKB1 p105/p50 using anti-NFkB/NFKB1 p105/p50 antibody (PA2111). Electrophoresis was performed on a 10% SDS-PAGE gel at 80V (Stacking gel) / 120V (Resolving gel) for 2 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human U-87MG- WT whole cell lysates, Lane 2: human U-87MG-NFKB1 KO whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-NFkB/NFKB1 p105/p50 antigen affinity purified polyclonal antibody (PA2111) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an ECL Plus Western Blotting Substrate (Catalog # AR1196-200) with Tanon 5200 system. A specific band was detected for NFkB/NFKB1 p105/p50 at approximately 50/120 kDa. The expected band size for NFkB/NFKB1 p105/p50 is at 105 kDa.

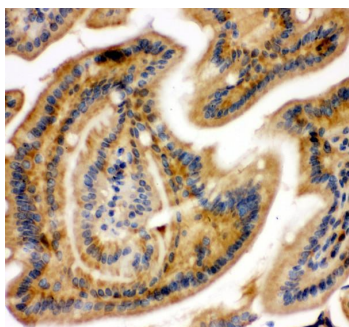


Western blot analysis of NFkB p105/p50 using anti-NFkB p105/p50 antibody (PA2111). Electrophoresis was performed on a 8% SDS-PAGE gel at 80V (Stacking gel) / 120V (Resolving gel) for 2 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human THP-1 whole cell lysates, Lane 2: human Raji whole cell lysates, Lane 3: human Daudi whole cell lysates, Lane 4: human MCF-7 whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-NFkB p105/p50 antigen affinity purified polyclonal antibody (PA2111) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054) at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an ECL Plus Western Blotting Substrate (Catalog # AR1196-200) with Tanon 5200 system. A specific band was detected for NFkB p105/p50 at approximately 50, 120 kDa. The expected band size for NFkB p105/p50 is at 105 kDa.

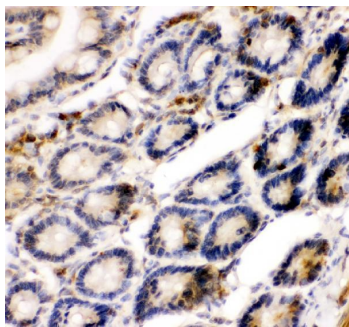
IHC analysis of NFkB p105/p50 using anti-NFkB p105/p50 antibody (PA2111). NFkB p105/p50 was detected in a paraffin-embedded section of human lung cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-NFkB p105/p50 Antibody (PA2111) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and



incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.



IHC analysis of NFkB p105/p50 using anti-NFkB p105/p50 antibody (PA2111). NFkB p105/p50 was detected in a paraffin-embedded section of mouse intestine tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-NFkB p105/p50 Antibody (PA2111) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.



IHC analysis of NFkB p105/p50 using anti-NFkB p105/p50 antibody (PA2111). NFkB p105/p50 was detected in a paraffin-embedded section of rat intestine tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-NFkB p105/p50 Antibody (PA2111) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.

## 12 Publications Citing This Product

1. PubMed ID: 27413418, Hydrogen Sulfide Mitigates Kidney Injury in High Fat Diet-Induced Obese Mice
2. PubMed ID: 25269519, Liu Mw, Wang Yh, Qian Cy, Li H. Int J Mol Med. 2014 Dec;34(6):1492-504. Doi: 10.3892/Ijmm.2014.1943. Epub 2014 Sep 23. Xuebijing Exerts Protective Effects On Lung Permeability Leakage And Lung Injury By Upregulating Toll-Interacting Protein Express...
3. PubMed ID: 20103064, Li Y, Chen Y, Zhang J, Zhu Jf, Liu Zj, Liang Sy, Sun K, Liao Wy, Gong Jp. Am J Surg. 2010 Jan;199(1):35-42. Doi: 10.1016/J.Amjsurg.2008.11.039. Protective Effect Of Glutamine-Enriched Early Enteral Nutrition On Intestinal Mucosal Barrier Injury Af...

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