NF-κB2 p100/p52 Antibody

For Research Use Only. Not For Use In Diagnostic Procedures.

Applications:
- WB, IP

Reactivity:
- H (human)
- M (mouse)
- R (rat)
- Mk (monkey)

Sensitivity:
- Endogenous

MW (kDa):
- 52 (mature), 120 (precursor)

Source:
- Rabbit

UniProt ID:
- Q00653

Entrez-Gene Id:
- 4791

Product Usage Information

Application | Dilution
---|---
Western Blotting | 1:1000
Immunoprecipitation | 1:50

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C. Do not aliquot the antibody.

Specificity / Sensitivity

NF-kappaB2 p100 Antibody detects endogenous levels of p100, the precursor, and p52, the mature form of NF-kappaB2. The antibody does not cross-react with other family members.

Species Reactivity:
- Human, Mouse, Rat, Monkey

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues at the amino-terminus of human p100NF-kappaB2. Antibodies are purified by protein A and peptide affinity chromatography.

Background

Transcription factors of the nuclear factor κB (NF-κB)/Rel family play a pivotal role in inflammatory and immune responses (1,2). There are five family members in mammals: RelA, c-Rel, RelB, NF-κB1 (p105/p50), and NF-κB2 (p100/p52). Both p105 and p100 are proteolytically processed by the proteasome to produce p50 and p52, respectively. Rel proteins bind p50 and p52 to form dimeric complexes that bind DNA and regulate transcription. In unstimulated cells, NF-κB is sequestered in the cytoplasm by IκB inhibitory proteins (3-5). NF-κB-activating agents can induce the phosphorylation of IκB proteins, targeting them for rapid degradation through the ubiquitin-proteasome pathway and releasing NF-κB to enter the nucleus where it regulates gene expression (6-8). NIK and IKKα (IKK1) regulate the phosphorylation and processing of NF-κB2 (p100) to produce p52, which translocates to the nucleus (9-11).


Species Reactivity is determined by testing in at least one approved application (e.g., western blot).

IMPORTANT: For primary antibodies recommended for western blotting applications, we recommend incubating the membrane with diluted antibody at 4°C with gentle shaking overnight. Please refer to the western blot protocol found on the product web page for the antibody-specific diluent recommendation.

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