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#4766

NF- κ B Family Member Antibody Sampler Kit

1 Kit (8 x 20 microliters)

For Research Use Only. Not for Use in Diagnostic Procedures.

Product Includes	Product #	Quantity	Mol. Wt	Isotype/Source
NF- κ B p65 (L8F6) Mouse mAb	6956	20 μ l	65 kDa	Mouse IgG2b
RelB (C1E4) Rabbit mAb	4922	20 μ l	70 kDa	Rabbit IgG
c-Rel (D4Y6M) Rabbit mAb	12707	20 μ l	68-78 kDa	Rabbit IgG
NF- κ B1 p105/p50 (D7H5M) Rabbit mAb	12540	20 μ l	50 Active form. 120 Precursor kDa	Rabbit IgG
NF- κ B1 p105 Antibody	4717	20 μ l	120 kDa	Rabbit
NF- κ B2 p100/p52 Antibody	4882	20 μ l	52 (mature). 120 (precursor). kDa	Rabbit
NF- κ B2 p100/p52 (18D10) Rabbit mAb	3017	20 μ l	52 active form. 120 precursor. kDa	Rabbit IgG
NF- κ B p65 (D14E12) XP [®] Rabbit mAb	8242	20 μ l	65 kDa	Rabbit IgG
Anti-rabbit IgG, HRP-linked Antibody	7074	100 μ l		Goat
Anti-mouse IgG, HRP-linked Antibody	7076	100 μ l		Horse

Please visit cellsignal.com for individual component applications, species cross-reactivity, dilutions, protocols, and additional product information.

Description

This kit contains reagents to examine total protein levels of the five NF- κ B/Rel family members: p65/RelA, RelB, c-Rel, NF- κ B1 (p105/p50) and NF- κ B2 (p100/p52).

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

Background

Transcription factors of the nuclear factor κ B (NF- κ B)/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- κ B1 (p105/p50), and NF- κ B2 (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- κ B is sequestered in the cytoplasm by I κ B inhibitory proteins (3-5). NF- κ B-activating agents can induce the phosphorylation of I κ B proteins, targeting them for rapid degradation through the ubiquitin-proteasome pathway and releasing NF- κ B to enter the nucleus where it regulates gene expression (6-8). NIK and IKK α (IKK1) regulate the phosphorylation and processing of NF- κ B2 (p100) to produce p52, which translocates to the nucleus (9-11).

Background References

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