



DB076: I κ B- β (C20)

Background:

The NF κ B family of transcription factors is sequestered in the cytoplasm by I κ B inhibitory proteins (1&2). I κ B- α and I κ B- β are the two members of this family most often cited for their regulatory function of NF κ B directed gene expression. The interaction of NF κ B dimers with I κ B proteins keeps the complex in the cytoplasm, but upon cellular stimulation the I κ B proteins are phosphorylated and subsequently degraded (1&3). The free NF κ B can now enter the nucleus and induce gene expression of proteins critical for cellular proliferation, differentiation, or apoptosis (1-4).

Origin:

I κ B- β (C20) is provided as an affinity purified rabbit polyclonal antibody, raised against a peptide mapping to the carboxy terminal domain of human I κ B- β .

Product Details:

Each vial contains 200 μ g/ml of affinity purified rabbit IgG, I κ B- β (C20) DB076, in 1 ml PBS containing 0.1 % sodium azide and 0.2% gelatin.

Competition Studies:

A blocking peptide is also available, DB076P, for use in competition studies. Each vial contains 100 μ g of peptide in 0.5 ml PBS with 0.1% sodium azide and 100 μ g BSA.

Specificity:

I κ B- β (C20) is recommended to detect mouse, rat and human I κ B- β by western blotting, immunoprecipitation, and immunohistochemistry. Recommended western blotting starting dilution 1:200.

Storage:

Store this product at 4° C, do not freeze. The product is stable for one year from the date of shipment.

References:

1. Schmitz ML, Baeuerle PA. 1995. Multi-step activation of NF-kappa B/Rel transcription factors. Immunobiology 193(2-4):116-127.
2. Tran K, Merika M, Thanos D. 1997. Distinct functional properties of IkappaB alpha and IkappaB beta. Mol Cell Biol 17(9):5386-5399.
3. Tanaka K, Kawakami T, Tateishi K, Yashiroda H, Chiba T. 2001. Control of IkappaBalpha proteolysis by the ubiquitin-proteasome pathway. Biochimie 83(3-4):351-356.
4. Chen CG, Malliaros J, Katerelos M, d'Apice AJ, Pearse MJ. Inhibition of NF-kappaB activation by a dominant-negative mutant of IkappaBalpha. Mol. Immunology 33(1):57-61.