**BACKGROUND**

IκB-ζ (also called MAIL-S or INAP) is a member of the IκB family. It shares a 30% identity with other family members and consists of six ankyrin repeats at its C-terminal. IκB-ζ accumulates in the nucleus and, in humans, associates with the p50 and p65 subunits of nuclear NFκB via its ankyrin repeats. The mouse homologue of IκB-ζ has only been shown to associate with the p50 subunit. IκB-ζ inhibits DNA binding and activity of the transcription factor NFκB. Distinct from other IκB family members, IκB-ζ is not degraded upon cell stimulation and activation of NFκB, rather evidence shows that it is upregulated under these circumstances. This suggests that IκB-ζ plays a significant role in regulation of NFκB and that NFκB may regulate IκB-ζ in a negative feedback loop. Regulation of NFκB by IκB-ζ may differ depending on the species.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: NFKBIZ (human) mapping to 3q12.3; NFKBIZ (mouse) mapping to 16 Chr.1.

**SOURCE**

IκB-ζ (H-50) is a rabbit polyclonal antibody raised against amino acids 491-540 mapping within an internal region of IκB-ζ of human origin.

**PRODUCT**

Each vial contains 200 µg IgG in 1.0 ml of PBS with <0.1% sodium azide and 0.1% gelatin.

**APPLICATIONS**

IκB-ζ (H-50) is recommended for detection of IκB-ζ of mouse, rat, and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation (1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

IκB-ζ (H-50) is also recommended for detection of IκB-ζ in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for IκB-ζ siRNA (h): sc-44896, IκB-ζ siRNA (m): sc-44897, IκB-ζ shRNA Plasmid (h): sc-44896-SH, IκB-ζ shRNA Plasmid (m): sc-44897-SH, IκB-ζ shRNA (h) Lentiviral Particles: sc-44896-V and IκB-ζ shRNA (m) Lentiviral Particles: sc-44897-V.

Positive Controls: HeLa nuclear extract: sc-2120 or WI-38 whole cell lysate: sc-364260.

**DATA**

![Western blot analysis of IκB-ζ expression in HeLa nuclear extract (A) and WI-38 whole cell lysate (B).](image1)

![Immunoperoxidase staining of formalin fixed, paraffin-embedded human bone marrow tissue showing nuclear and cytoplasmic staining of hematopoietic cells.](image2)

**SELECT PRODUCT CITATION**


**STORAGE**

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**RESEARCH USE**

For research use only, not for use in diagnostic procedures.