IκB-ε (F-9): sc-365899



The Power to Ouestion

BACKGROUND

On the basis of both functional and structural considerations, members of the lkB family of proteins can be divided into four groups. The first of these groups, lkB- α , includes the avian protein pp40 and the mammalian MAD-3, both of which inhibit binding of p50-p65 NFkB complex or Rel protein to their cognate binding sites but do not inhibit the binding of p50 homodimer to kB sites, suggesting that the lkB- α family binds to the p65 subunit of p50-p65 heterocomplex through ankyrin repeats. The second member of the lkB family is represented by a protein designated lkB- β . The third group of lkB proteins is represented by lkB- γ , which is identical in sequence with the C-terminal domain of the p110 precursor of NFkB p50 and is expressed predominantly in lymphoid cells. An additional lkB family member, lkB- ϵ , has several phosphorylated forms and is primarily found complexed with Rel A and/or c-Rel.

REFERENCES

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- 5. Inoue, J.I., et al. 1992. I κ B- γ , a 70 kd protein identical to the C-terminal half of p110 NF κ B; a new member of the I κ B family. Cell 68: 1109-1120.
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- 8. Simeonidis, S., et al. 1997. Cloning and functional characterization of mouse lkBe. Proc. Natl. Acad. Sci. USA 94: 14372-14377.
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CHROMOSOMAL LOCATION

Genetic locus: NFKBIE (human) mapping to 6p21.1; Nfkbie (mouse) mapping to 17 B3.

SOURCE

IκB- ϵ (F-9) is a mouse monoclonal antibody raised against amino acids 1-365 of IκB- ϵ of mouse origin.

PRODUCT

Each vial contains 200 μg lgG_{2a} kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

IκB- ϵ (F-9) is recommended for detection of IκB- ϵ of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for I κ B- ϵ siRNA (h): sc-35642, I κ B- ϵ siRNA (m): sc-35643, I κ B- ϵ shRNA Plasmid (h): sc-35642-SH, I κ B- ϵ shRNA (h) Lentiviral Particles: sc-35642-V and I κ B- ϵ shRNA (m) Lentiviral Particles: sc-35643-V.

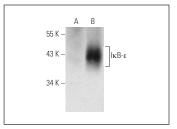
Molecular Weight of IκB-ε: 51 kDa.

Positive Controls: THP-1 cell lysate: sc-2238, A-431 whole cell lysate: sc-2201 or $l\kappa B$ - ϵ (m): 293T Lysate: sc-120929.

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-lgG κ BP-HRP: sc-516102 or m-lgG κ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz MarkerTM Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use m-lgG κ BP-FITC: sc-516140 or m-lgG κ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

DATA



 $l_κ$ B-ε (F-9): sc-365899. Western blot analysis of $l_κ$ B-ε expression in non-transfected: sc-117752 (**A**) and mouse $l_κ$ B-ε transfected: sc-120929 (**B**) 293T whole cell Ivsates.

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.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.