

Purified Rabbit Anti-mouse I κ B α

Catalog Number: TP365

Lot Number:

Content: Protein A purified rabbit IgG, 200 μ g, with 0.1% sodium azide, lyophilized.

(Reconstitute to 1 mg/ml by adding 200 μ l PBS)

Product Description and Usage: For research use only. This polyclonal antibody, which reacts with mouse I κ B α , was generated using *E. coli*-expressed mouse I κ B α as an immunogen. The tested titer for Western blot is 1:2,000.

Cross-reactivity to I κ B α of other species has not been determined.

Storage Condition: 4°C for short term storage or -20°C in small aliquots for long term storage. Avoid repeated freeze and thaw.

Background: I κ B α protein is a NF- κ B inhibitory protein. It binds NF- κ B, retains the complex in the cytoplasm, prevents it from entering nuclear and functioning as a transcription factor. Upon receiving a variety of signals, I κ B α undergoes phosphorylation at serine residues by a ubiquitin-dependent protein kinases and finally degraded by

the proteasome. Free NF- κ B then binds to DNA and affects gene expression^{1,2}.

References:

1. Piette, J. et al. (1997) Multiple redox regulation in NF-kappaB transcription factor activation. *Biol Chem. Nov 1997*, 378 (11): 1237-45
2. Neurath, MF. et al. (1998) Role of NF-kappaB in immune and inflammatory responses in the gut. *Gut* 43 (6): 856-60