

Recombinant Human IKB alpha protein ab113133

1 References

製品の詳細

製品名	Recombinant Human IKB alpha protein
精製度	> 85 % SDS-PAGE.
発現系	Escherichia coli
アクセッション番号	<u>P25963</u>
タンパク質長	Full length protein
Animal free	No
由来	Recombinant
生物種	Human
配列	<p>MGSSHHHHHHSSGLVPRGSHMFQAAERPQEWAMEGPRDGLKK ERLLDDRH DSGLD SMKDEEYEQMVKE LQEIRLEPQEVPRGSEPWKQQLTEDGDSFL HLAIIHEEKALTMEVIRQVKGDALFLNFQNNLQQTPLHLAVI TNQ PEI AEALLGAGCDPELRDFRGNTPLHLACEQGCLASVGVLTSCT TPHLHSIL KATNYNGHTCLHLASIHGYLGI VELLVSLGADVNAQEPNGRTALHLA VDLQNPDLVSLLLKCGADVNRVTYQGYSPLYQLTWGRPSTRIQ QQLGQLT LENLQMLPESEDEESYDTESEFTEFTEDEL PYDDCVFGGQRL TL</p>
予測される分子量	38 kDa including tags
領域	1 to 317
タグ	His tag N-Terminus

特性

Our **Abpromise guarantee** covers the use of **ab113133** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

アプリケーション	SDS-PAGE
	Mass Spectrometry
質量分析	MALDI-TOF

製品の状態

Liquid

前処理および保存

保存方法および安定性

Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.

pH: 8.00

Constituents: 0.02% DTT, 0.32% Tris HCl, 20% Glycerol (glycerin, glycerine), 0.58% Sodium chloride

関連情報

機能

Inhibits the activity of dimeric NF-kappa-B/REL complexes by trapping REL dimers in the cytoplasm through masking of their nuclear localization signals. On cellular stimulation by immune and proinflammatory responses, becomes phosphorylated promoting ubiquitination and degradation, enabling the dimeric RELA to translocate to the nucleus and activate transcription.

関連疾患

Ectodermal dysplasia, anhidrotic, with T-cell immunodeficiency autosomal dominant

配列類似性

Belongs to the NF-kappa-B inhibitor family.

Contains 5 ANK repeats.

翻訳後修飾

Phosphorylated; disables inhibition of NF-kappa-B DNA-binding activity. Phosphorylation at positions 32 and 36 is prerequisite to recognition by UBE2D3 leading to polyubiquitination and subsequent degradation.

Sumoylated; sumoylation requires the presence of the nuclear import signal. Sumoylation blocks ubiquitination and proteasome-mediated degradation of the protein thereby increasing the protein stability.

Monoubiquitinated at Lys-21 and/or Lys-22 by UBE2D3. Ubiquitin chain elongation is then performed by CDC34 in cooperation with the SCF(FBXW11) E3 ligase complex, building ubiquitin chains from the UBE2D3-primed NFKBIA-linked ubiquitin. The resulting polyubiquitination leads to protein degradation. Also ubiquitinated by SCF(BTRC) following stimulus-dependent phosphorylation at Ser-32 and Ser-36.

Deubiquitinated by porcine reproductive and respiratory syndrome virus Nsp2 protein, which thereby interferes with NFKBIA degradation and impairs subsequent NF-kappa-B activation.

細胞内局在

Cytoplasm. Nucleus. Shuttles between the nucleus and the cytoplasm by a nuclear localization signal (NLS) and a CRM1-dependent nuclear export.

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