

Recombinant Cattle NFKB1 Protein, His-tagged

Cat. No. NFKB1-2487C Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Cattle NFKB1 Protein (Ala2-Glu295) with a N-His tag was expressed in E. coli.
Species	Cattle
Source	E.coli
ProteinLength	Ala2-Glu295
Description	<p>This gene encodes a 105 kD protein which can undergo cotranslational processing by the 26S proteasome to produce a 50 kD protein. The 105 kD protein is a Rel protein-specific transcription inhibitor and the 50 kD protein is a DNA binding subunit of the NF-kappa-B (NFKB) protein complex. NFKB is a transcription regulator that is activated by various intra- and extra-cellular stimuli such as cytokines, oxidant-free radicals, ultraviolet irradiation, and bacterial or viral products. Activated NFKB translocates into the nucleus and stimulates the expression of genes involved in a wide variety of biological functions. Inappropriate activation of NFKB has been associated with a number of inflammatory diseases while persistent inhibition of NFKB leads to inappropriate immune cell development or delayed cell growth. NFKB is a critical regulator of the immediate-early response to viral infection. Alternative splicing results in multiple transcript variants encoding different isoforms, at least one of which is proteolytically processed.</p>
Form	Freeze-dried powder

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Molecular Mass	Predicted Molecular Mass: 36.4 kDa Accurate Molecular Mass: 40 kDa
Endotoxin	<1.0 EU per 1g (determined by the LAL method).
Purity	> 90%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	NFKB1 nuclear factor kappa B subunit 1 [Bos taurus (cattle)]
Official Symbol	NFKB1
Synonyms	NFKB1; nuclear factor kappa B subunit 1; nuclear factor NF-kappa-B p105 subunit nuclear factor NF-kappa-B p105 subunit-like protein

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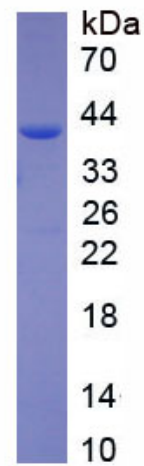
nuclear factor of kappa light polypeptide enhancer in B-cells 1
nuclear factor of kappa light polypeptide gene enhancer in B-cells 1 (p105)

Gene ID 616115

mRNA Refseq NM_001076409

Protein Refseq NP_001069877

UniProt ID A7Z034



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