



Recombinant Rat Nuclear factor NF-kappa-B p105 subunit (Nfkb1)

Product Code	CSB-EP723572RA
Abbreviation	Nfkb1
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	Q63369
Product Type	Recombinant Protein
Immunogen Species	Rattus norvegicus (Rat)
Purity	>85% (SDS-PAGE)
Sequence	REILNPPEKE TQGEGPSLFM ASTKTEAIAP ASTMEDKEED VGFQDNLFLE KALQLAKRHA NALFDYAVTG DVKMLLAVQR HLTAVQDENG DSVLHLAIH LHAQLVRDLL EVTSGSISDD IINMRNDLYQ TPLHLAVITK QEDVVEDLLR VGADLSLLDR WGNLVLHLAA KEGHDKILGV LLKNSKAALL INHPNGEGLN AIHIAVMSNS LSCLQLLVAA GAEVNAQEYK SGRALHLAV EYDNISLAGC LLLEGDALVD STTYDGTTPH HIAAGRGSTR LAALLKAAGA DPLVENFEPL YDLDDSWEKA GEDEGVVPGT TPLDMAANWQ VFDILNGKPY EPVFTSDDIL PQGDIKQLTE DTRLQLCKLL EIPDPKNWA TLAQKLGLGI LNNAFRLSPA PSKTLMDNYE VSGGTIKELV EALRQMGYTE AIEVIQAAFR TPETTASSPV TTAQAHLLPL SSSSTRQHID ELRDNDVCD SGVETSFRKL SFSESLTGDG PLLSLNKMPH NYGQDGPPIEG KI
Source	E.coli
Target Names	Nfkb1
Protein Names	Recommended name: Nuclear factor NF-kappa-B p105 subunit Alternative name(s): DNA-binding factor KBF1 EBP-1 Nuclear factor of kappa light polypeptide gene enhancer in B-cells 1 Cleaved into the following chain: 1. Nuclear factor NF-kap
Expression Region	1-522
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	full length protein
Target Details	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 NF κ B translocates into the nucleus and stimulates the expression of genes involved in a wide variety of biological functions. Inappropriate activation of NF κ B has been associated with a number of inflammatory diseases while persistent inhibition of NF κ B leads to inappropriate immune cell development or delayed cell growth. Two transcript variants encoding different isoforms have been found for this gene.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.