Recombinant Mouse Neutrophil cytosol factor 4 (Ncf4)

Product Code	CSB-EP015529MO-B
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	P97369
Product Type	Recombinant Protein
Immunogen Species	Mus musculus (Mouse)
Purity	>85% (SDS-PAGE)
Sequence	MALAQQLRSE SDFEQLPDDV AVSANIADIE EKRGFTSHFV FVIEVKTKGG SKYLIYRRYR QFYALQSKLE ERFGPESKNS PFTCSLPTLP AKVYMGAKQE IAETRIPALN AYMKNLLSLP VCVLMDPDVR IFFYQSAYDA EQVPQALRRL RPRTRKIKGV SPQGAIMDRM EAPRAEALFD FTGNSKLELS FKAGDVIFLL SKINKDWLEG TSQGATGIFP GSFVKILKDF PEDEDTTNWL RCYFYEDTGK TIKDIAVEED LSSTPLFKDL LALMRREFQR EDIALSYQDA EGDLVRLLSD EDVGLMVKQA RGLPSQKRLF PWKLHVTQKD NYSVYNTVP
Source	E.coli
Target Names	Ncf4
Protein Names	Recommended name: Neutrophil cytosol factor 4 Short name= NCF-4 Alternative name(s): Neutrophil NADPH oxidase factor 4 p40-phox Short name= p40phox
Expression Region	1-339
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 protein is a cytosolic regulatory component of the superoxide-producing phagocyte NADPH-oxidase, a multicomponent enzyme system important for host defense. This protein is preferentially expressed in cells of myeloid lineage. It interacts primarily with neutrophil cytosolic factor 2 (NCF2/p67-phox) to form a complex with neutrophil cytosolic factor 1 (NCF1/p47-phox), which further interacts with the small G protein RAC1 and translocates to the membrane upon cell stimulation. This complex then activates flavocytochrome b, the membrane-integrated catalytic core of the enzyme system. The PX domain of this protein can bind phospholipid products of the PI(3) kinase, which suggests its role in PI(3) kinase-mediated signaling events. The phosphorylation of this protein was found to negatively regulate the enzyme activity. Alternatively spliced transcript variants encoding distinct isoforms have been observed.
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.