Recombinant Beta Actin (ACTB) Instruction Manual

SIPB745Mi01

Homo sapiens (Human), Mus musculus (Mouse), Rattus norvegicus (Rat), Cavia (Guinea pig), Canis familiaris; Canine (Dog), Sus scrofa; Porcine (Pig), Bos taurus; Bovine (Cattle), Ovis aries; Ovine (Sheep), Equus caballus; Equine (Horse), Chicken (Gallus)

Source	Prokaryotic expression
Host	E.coli
Endotoxin Level	<1.0EU per 1μg (determined by the LAL method)
Subcellular Location	Cytoplasm
Predicted Molecular Mass	43.3kDa
Accurate Molecular Mass	44kDa(Analysis of differences refer to the manual)
Residues & Tags	Met1~Phe375 with N-terminal His Tag
Buffer Formulation	PBS, pH7.4, containing 0.01% SKL, 5% Trehalose.
Traits	Freeze-dried powder
Purity	> 90%
Isoelectric Point	5.6
Applications	Positive Control; Immunogen; SDS-PAGE; WB.

SEQUENCE

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MDDDIAALVV DNGSGMCKAG FAGDDAPRAV FPSIVGRPRH QGVMVGMGQK
DSYVGDEAQS KRGILTLKYP IEHGIVTNWD DMEKIWHHTF YNELRVAPEE
HPVLLTEAPL NPKANREKMT QIMFETFNTP AMYVAIQAVL SLYASGRTTG
IVMDSGDGVT HTVPIYEGYA LPHAILRLDL AGRDLTDYLM KILTERGYSF
TTTAEREIVR DIKEKLCYVA LDFEQEMATA ASSSSLEKSY ELPDGQVITI
GNERFRCPEA LFQPSFLGME SCGIHETTFN SIMKCDVDIR KDLYANTVLS
GGTTMYPGIA DRMQKEITAL APSTMKIKII APPERKYSVW IGGSILASLS
TFQQMWISKQ EYDESGPSIV HRKCF
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USAGE

Reconstitute in ddH$_2$O to a concentration of 0.1-0.2mg/mL. Do not vortex.

STORAGE

Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.

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°C 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.
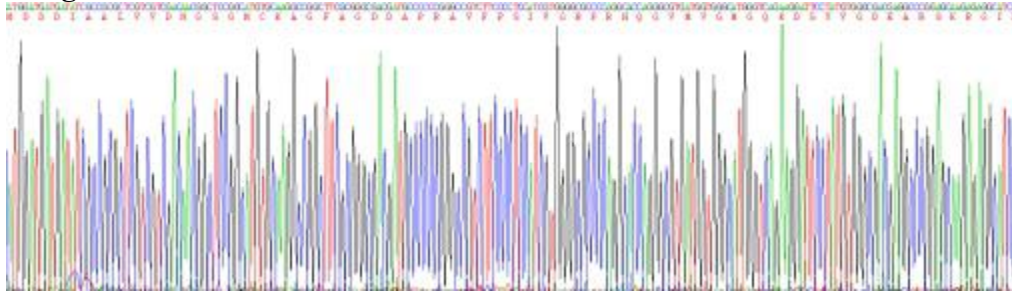
Image

Figure. SDS-PAGE

[IMPORTANT NOTE]

The kit is designed for research use only, we will not be responsible for any issue if the kit was used in clinical diagnostic or any other procedures.