Cloud-Clone Corp.

EPB167Ra61 100µg

Eukaryotic Cluster Of Differentiation 4 (CD4)

Organism Species: *Rattus norvegicus (Rat)*

Instruction manual

FOR RESEARCH USE ONLY

NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES

13th Edition (Revised in Aug, 2023)

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[PROPERTIES]

Source: Eukaryotic expression

Host: 293F Cell

Residues: Lys28~Thr394

Tags: N-terminal His Tag and C-terminal Fc Region of Mouse IgG1

Subcellular Location: Membrane

Purity: > 95%

Traits: Freeze-dried powder

Buffer formulation: PBS, pH7.4, containing 5% Trehalose.

Original Concentration: 200μg/mL

Applications: Positive Control; Immunogen; SDS-PAGE; WB.

(May be suitable for use in other assays to be determined by the end user.)

Predicted isoelectric point: 9.2

Predicted Molecular Mass: 66.0kDa

Accurate Molecular Mass: 75kDa as determined by SDS-PAGE reducing conditions.

Phenomenon explanation:

The possible reasons that the actual band size differs from the predicted are as follows:

1.Splice variants: Alternative splicing may create different sized proteins from the same gene.

2. Relative charge: The composition of amino acids may affects the charge of the protein.

3. Post-translational modification: Phosphorylation, glycosylation, methylation etc.

4. Post-translation cleavage: Many proteins are synthesized as pro-proteins, and then cleaved to give the active form.

5. Polymerization of the target protein: Dimerization, multimerization etc.

[USAGE]

Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

[STORAGE AND STABILITY]

Storage: Avoid repeated freeze/thaw cycles.

Store at 2-8ºC for one month.

Aliquot and store at -80ºC for 12 months.

Stability Test: 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.

[SEQUENCE]

KTVVLGKEGGSAELPCESTSRRSASFAWKSSDQKTILGYKNKLLIKGSLELYSRFDSRKNAWERGSF
PLIINKLRMEDSQTYVCELENKKEEVELWVFRVTFNPGTRLLQGQSLTLILDSNPKVSDPPIECKH
KSSNIVKDSKAFSTHSLRIQDSGIWNCTVTLNQKKHSFDMKLSVLGFASTSITAYKSEGESAEFSFPL
NLGEESLQGELRWKAEKAPSSQSWITFSLKNQKVSVQKSTSNPKFQLSETLPLTLQIPQVSLQFAG
SGNLTLTLDRGILYQEVNLVVMKVTQPDSNTLTCEVMGPTSPKMRLILKQENQEARVSRQEKVI
QVQAPEAGVWQCLLSEGEEVKMDSKIQVLSKGLNQT

[IDENTIFICATION]

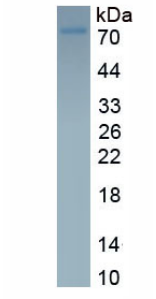


Figure. SDS-PAGE

[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.