RPA488Mu01 10μg

Recombinant Keratin 5 (KRT5)

Organism Species: Mus musculus (Mouse)

Instruction manual

FOR IN VITRO USE AND RESEARCH USE ONLY

NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES

11th Edition (Revised in May, 2016)

[PROPERTIES]

Source: Prokaryotic expression.

Host: *E. coli*

Residues: Arg163~Glu471

Tags: N-terminal His-Tag

Tissue Specificity: Epidermis.

Purity: >92%

Traits: Freeze-dried powder

Buffer formulation: PBS, pH7.4, containing 1mM DTT, 5% trehalose, 0.01% sarcosyl and Proclin300.

Original Concentration: 200ug/mL

Applications: SDS-PAGE; WB; ELISA; IP; CoIP; Purification; Amine Reactive Labeling.

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

Predicted isoelectric point: 5.3

Predicted Molecular Mass: 37.6kDa

Accurate Molecular Mass: 33kDa 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 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 2-8°C for one month.
Aliquot and store at -80°C 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]

REQIKTLN NKFASFIDKV RFLEQQNKVL DTKWALLQEQ
GTKTIKQNLD PLFEQYINNL RRQLDGVLGE RGRLDSELRN MQDLVEDYKN
KYEDEINKRT TAENEFVMLK KDVDAAYMNK VELEARVDAL MDEINFMKMF
FDAELSQMQT HVSDTSVVLS MDNNRSLDLD SIIAEVKAQY EDIANRSRTE
AESWYQTKYE ELQQTAGRHG DDLRNTKHEI SEMNRMIQRL RSEIDNVKKQ
CANLQNAIAE AEQRGELALK DARNKLTELE EALQKAKQDM ARLLREYQEL
MNTKLALDVE IATYRKLLEG E

[IDENTIFICATION]

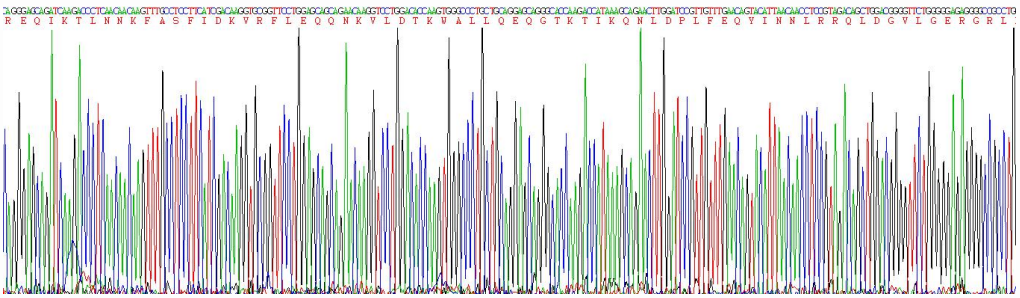

Figure 1. Gene Sequencing (Extract)

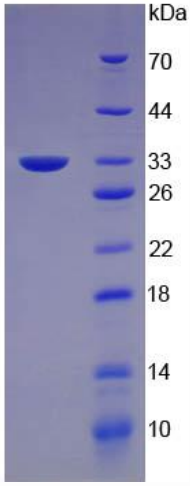

Figure 2. SDS-PAGE