

## Keratin 5 (KRT5) Recombinant Protein | KRT5 recombinant protein

Recombinant Keratin 5 (KRT5)

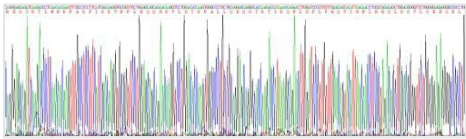
|                               |                       |                                               |
|-------------------------------|-----------------------|-----------------------------------------------|
| CATALOG #<br><b>AAA134115</b> | HOST<br><b>E Coli</b> | APPLICATIONS<br><b>Western Blot, SDS-Page</b> |
|-------------------------------|-----------------------|-----------------------------------------------|

### PRODUCT SYNONYMS

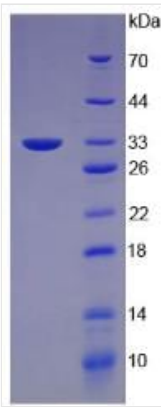
Keratin 5 (KRT5); Recombinant Keratin 5 (KRT5); KRT5 recombinant protein

### PRODUCT SPECIFICATIONS

|                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                                 | E Coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Purity/Purification                                  | > 90%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Form/Format                                          | PBS, pH7.4, containing 0.01% SKL.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Concentration                                        | Original Concentration: 200 ug/mL (varies by lot)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Applicable Applications for KRT5 recombinant protein | WB (Western Blot), SDS-PAGE, Immunogen, Positive Control                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Organism Species                                     | Mus musculus (Mouse)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Source                                               | Prokaryotic expression                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Tags                                                 | N-terminal His Tag                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Traits                                               | Freeze-dried powder                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Predicted isoelectric point                          | 5.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Predicted Molecular Mass                             | 37.6kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Accurate Molecular Mass                              | 33kDa as determined by SDS-PAGE reducing conditions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Phenomenon explanation                               | <p>The possible reasons that the actual band size differs from the predicted are as follows:</p> <ol style="list-style-type: none"> <li>1.Splice variants: Alternative splicing may create different sized proteins from the same gene.</li> <li>2. Relative charge: The composition of amino acids may affects the charge of the protein.</li> <li>3. Post-translational modification: Phosphorylation, glycosylation, methylation etc.</li> <li>4. Post-translation cleavage: Many proteins are synthesized as pro-proteins, and then cleaved to give the active form.</li> <li>5. Polymerization of the target protein: Dimerization, multimerization etc</li> </ol> |
| Usage                                                | Reconstitute in PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Preparation and Storage                              | <p>Store at 2-8°C for one month.<br/>Aliquot and store at -80°C for 12 months.</p> <p>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.</p>                                                                                                                                                                                                                           |



Application Data



SDS-PAGE

```
      REIKTLN  NKFSFIDKV  RFLEQNKVL  DTKWALLQEQ
GTKTIQNLD  PLFEQYINN  RRQLDGVLGE  RGRDSELRN  MQDLVEDYKN
KYEDEINKRT  TAENEFVMLK  KDVDAAVMNK  VELEARVDAL  MDEINFMKMF
FDAELSQMQT  HVSDFSVVLS  MDNRSRLDLD  SIIAEVKAQY  EDIANRSRTE
AESWYQTKYE  ELQQTAGRHG  DDLRNTKHEI  SEMNRMIQRL  RSEIDNVKKQ
CANLQNAIAE  AEQRGELALK  DARNKLTELE  EALQKAKQDM  ARLLREYQEL
MNTKLALDVE  IATYRKLLGE  E
```

Sequence

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                                                           |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 20911031                                                                                                                                                                                  |
| NCBI GeneID                      | 110308                                                                                                                                                                                    |
| NCBI Accession #                 | NP_081287.1                                                                                                                                                                               |
| NCBI GenBank Nucleotide #        | NM_027011.2                                                                                                                                                                               |
| UniProt Accession #              | Q922U2; Q920F2                                                                                                                                                                            |
| NCBI Official Full Name          | keratin, type II cytoskeletal 5                                                                                                                                                           |
| NCBI Official Synonym Full Names | keratin 5                                                                                                                                                                                 |
| NCBI Official Symbol             | Krt5                                                                                                                                                                                      |
| NCBI Official Synonym Symbols    | K5; CK5; Tfip8; Krt2-5; AW146334; 3300001P10Rik                                                                                                                                           |
| NCBI Protein Information         | keratin, type II cytoskeletal 5; CK-5; keratin-5; cytokeratin 5; cytokeratin-5; 58 kDa cytokeratin; type-II keratin Kb5; tuftelin interacting protein 8; keratin complex 2, basic, gene 5 |
| UniProt Protein Name             | Keratin, type II cytoskeletal 5                                                                                                                                                           |
| UniProt Gene Name                | Krt5                                                                                                                                                                                      |
| UniProt Synonym Gene Names       | Krt2-5; CK-5; K5                                                                                                                                                                          |
| UniProt Entry Name               | K2C5_MOUSE                                                                                                                                                                                |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.