

# Recombinant Human Ubiquitin(K33R) protein

Catalog No.: RP10180LQ

## Sequence Information

|                   |                |
|-------------------|----------------|
| <b>Species</b>    | <b>Gene ID</b> |
| Human             |                |
| <b>Swiss Prot</b> | <b>Tags</b>    |
| P0CG47            | No Tag         |
| <b>Synonyms</b>   |                |
| Ubiquitin         |                |

## Product Information

|                |                                   |
|----------------|-----------------------------------|
| <b>Source</b>  | <b>Purification</b>               |
| <i>E. coli</i> | ≥ 95 % as determined by SDS-PAGE. |

## Calculated MW Observed MW

### Endotoxin

Please contact us for more information.

### Formulation

20 mM Tris, 150 mM NaCl, 2 mM βME, 10% Glycerol

### Reconstitution

## Background

Ubiquitin (Ub) is a 76 amino acid protein widely expressed in the cytoplasmic and nucleus of cells. Ub is posttranslationally conjugated to proteins by the E1, E2, E3 protein ubiquitination cascade. Ub can be conjugated on proteins as monoUb or polyUb chains. Protein ubiquitination plays both proteolytic and nonproteolytic functions. Usually, polyubiquitinated proteins are targeted to the 26S proteasome for proteolysis. Typical concentration to support in vitro ubiquitination is 50–100 μM. In Ub(K33R), lysine 33 was substituted with an arginine, thereby it cannot form lysine 33-linked polyubiquitin chains.

## Basic Information

### Description

Ubiquitin (Ub) is a 76 amino acid protein widely expressed in the cytoplasmic and nucleus of cells. Ub is posttranslationally conjugated to proteins by the E1, E2, E3 protein ubiquitination cascade. Ub can be conjugated on proteins as monoUb or polyUb chains. Protein ubiquitination plays both proteolytic and nonproteolytic functions. Usually, polyubiquitinated proteins are targeted to the 26S proteasome for proteolysis. Typical concentration to support in vitro ubiquitination is 50–100 μM. In Ub(K33R), lysine 33 was substituted with an arginine, thereby it cannot form lysine 33-linked polyubiquitin chains.

### Activity

### Shipping

Lyophilized proteins are shipped at ambient temperature.  
Liquid proteins are shipped at frozen temperature with dry ice.  
Upon receipt, store it immediately at the temperature recommended below.

### Storage

Store at -70°C

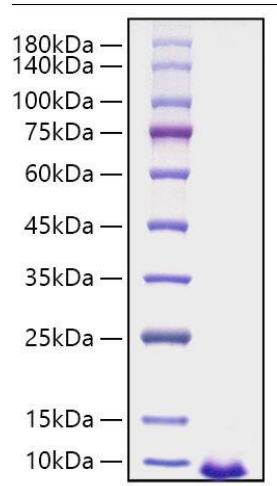
### Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

## Contact

|                                                                                     |  |                                                                          |
|-------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------|
|  |  | 400-999-6126                                                             |
|  |  | <a href="mailto:cn.market@abclonal.com.cn">cn.market@abclonal.com.cn</a> |
|  |  | <a href="http://www.abclonal.com.cn">www.abclonal.com.cn</a>             |

# Validation Data



Recombinant Human Ubiquitin(K33R) protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.