# Recombinant Ubiquitin K63 Monoclonal Antibody

**catalog number:** **E-AB-81618**

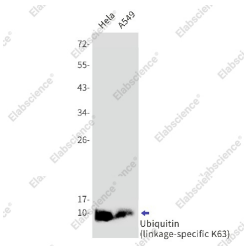
**Note:** *Centrifuge before opening to ensure complete recovery of vial contents.*

## Description

| | |
|---|---|
| **Reactivity** | Human |
| **Immunogen** | A synthetic peptide of human Ubiquitin (linkage-specific K63) |
| **Host** | Rabbit |
| **Isotype** | Rabbit IgG |
| **Clone** | C313404 |
| **Purification** | Affinity Purified |
| **Buffer** | 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.05% stabilizer and 0.05% protective protein. |

| Applications | Recommended Dilution |
|---|---|
| **WB** | 1:500-1:1000 |
| **IHC** | 1:50-1:100 |
| **IF** | 1:50-1:100 |

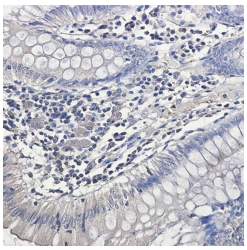
## Data



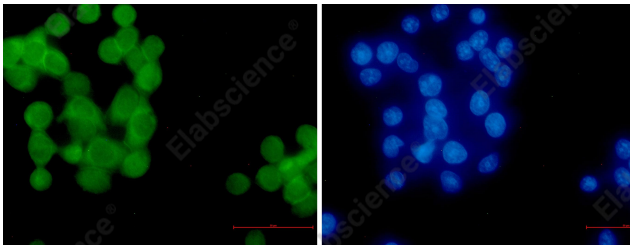

Western blot detection of Ubiquitin (linkage-specific K63) in Hela,A549 cell lysates using Ubiquitin (linkage-specific K63) Rabbit mAb(1:1000 diluted).Predicted band size:8kDa.Observed band size:8kDa.

**Observed-MW:8 kDa**

**Calculated-MW:8 kDa**



Immunohistochemistry of Ubiquitin (linkage-specific K63) in paraffin-embedded Human colon cancer tissue using Ubiquitin (linkage-specific K63) Rabbit mAb at dilution 1:50



Immunofluorescence of Ubiquitin (linkage-specific K63) (green) in hela using Ubiquitin (linkage-specific K63) Rabbit mAb at dilution 1:50, and DAPI(blue)

## Preparation & Storage

| | |
|---|---|
| **Storage** | Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles. |
| **Shipping** | The product is shipped with ice pack,upon receipt,store it immediately at the temperature recommended. |


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## Background

This gene encodes ubiquitin, one of the most conserved proteins known.Ubiquitin is required for ATP-dependent, nonlysosomal intracellular protein degradation of abnormal proteins and normal proteins with a rapid turnover. Ubiquitin is covalently bound to proteins to be degraded, and presumably labels these proteins for degradation. Ubiquitin also binds to histone H2A in actively transcribed regions but does not cause histone H2A degradation, suggesting that ubiquitin is also involved in regulation of gene expression.This gene consists of three direct repeats of the ubiquitin coding sequence with no spacer sequence.Consequently, the protein is expressed as a polyubiquitin precursor with a final amino acid after the last repeat.Aberrant form of this protein has been noticed in patients with Alzheimer's and Down syndrome.


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