

A18163

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K48-linkage Specific Polyubiquitin Rabbit pAb

Catalog No.: A18163

8 Publications

Basic Information

Observed MW

15-250kDa

Calculated MW

Category

Polyclonal Antibody

Applications

WB, ELISA, DB

Cross-Reactivity

Human, Mouse, Rat, Other (Wide Range Predicted)

Background

Protein ubiquitination is a dynamic multifaceted post-translational modification involved in nearly all aspects of eukaryotic biology. Owing to its molecular features, ubiquitin can form various homo- and heterotypic polymers on substrate proteins, thereby provoking distinct cellular responses. Ubiquitin can be ubiquitinated on seven lysine (Lys) residues or on the N-terminus, leading to polyubiquitin chains that can encompass complex topologies.

Polyubiquitin chains have different functions depending on the Lys residue of the ubiquitin that is linked: Lys-6-linked may be involved in DNA repair; Lys-11-linked is involved in ERAD (endoplasmic reticulum-associated degradation) and in cell-cycle regulation; Lys-29-linked is involved in lysosomal degradation; Lys-33-linked is involved in kinase modification; Lys-48-linked is involved in protein degradation via the proteasome; Lys-63-linked is involved in endocytosis, DNA-damage responses as well as in signaling processes leading to activation of the transcription factor NF-kappa-B.

Recommended Dilutions

WB 1:100 - 1:500

DB 1:500 - 1:1000

Immunogen Information

Gene ID

Swiss Prot

Immunogen

A synthetic peptide corresponding to a sequence containing polyubiquitinated protein (K48 linkage).

Synonyms

Contact



www.abclonal.com

Product Information

Source

Rabbit

Isotype

IgG

Purification

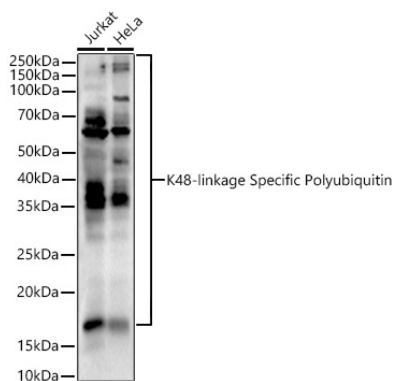
Affinity purification

Storage

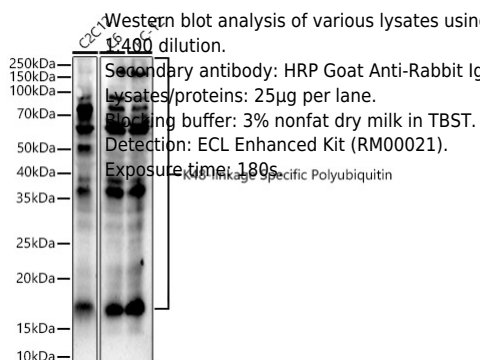
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.01% thimerosal, 50% glycerol, pH7.3.

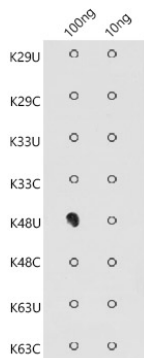
Validation Data



Western blot analysis of various lysates using K48-linkage Specific Polyubiquitin Rabbit pAb (A18163) at 1:400 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Enhanced Kit (RM00021). Exposure time: 90s.



Western blot analysis of various lysates using K48-linkage Specific Polyubiquitin Rabbit pAb (A18163) at 1:400 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Enhanced Kit (RM00021). Exposure time: 180s.



Dot-blot analysis of all sorts of peptides using K48-linkage Specific Polyubiquitin antibody (A18163) at 1:1000 dilution.