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Anti-Ubiquitin Picoband Antibody

Catalog # ABO11824

Specification

Anti-Ubiquitin Picoband Antibody - Product Information

Application	**WB, IHC-P**
Primary Accession	P0CG47
Host	**Rabbit**
Reactivity	**Human, Mouse, Rat**
Clonality	**Polyclonal**
Format	**Lyophilized**

Description
Rabbit IgG polyclonal antibody for Ubiquitin-60S ribosomal protein L40(UBA52) detection. Tested with WB, IHC-P in Human;Mouse;Rat.

Reconstitution
Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-Ubiquitin Picoband Antibody - Additional Information

Gene ID 7314

Other Names
Polyubiquitin-B, Ubiquitin, UBB

Calculated MW
25762 MW KDa

Application Details
Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Mouse, Rat, By Heat
Western blot, 0.1-0.5 µg/ml, Human

Subcellular Localization
Ubiquitin: Cytoplasm . Nucleus .

Protein Name
Polyubiquitin-B

Contents
Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.

Immunogen
E.coli-derived human Ubiquitin recombinant protein (Position: M77-G152).

Purification
Immunogen affinity purified.

Cross Reactivity
No cross reactivity with other proteins

Storage	**At -20˚C for one year. After r˚Constitution, at 4˚C for one month. It˚Can also be aliquotted and stored frozen at -20˚C for a longer time.Avoid repeated freezing and thawing.**

Sequence Similarities
Belongs to the ubiquitin family.

Anti-Ubiquitin Picoband Antibody - Protein Information

Name UBB

Function
[Ubiquitin]: Exists either covalently attached to another protein, or free (unanchored). When covalently bound, it is conjugated to target proteins via an isopeptide bond either as a monomer (monoubiquitin), a polymer linked via different Lys residues of the ubiquitin (polyubiquitin chains) or a linear polymer linked via the initiator Met of the ubiquitin (linear polyubiquitin chains). Polyubiquitin chains, when attached to a target protein, 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 proteotoxic stress response and cell cycle; 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. Linear polymer chains formed via attachment by the initiator Met lead to cell signaling. Ubiquitin is usually conjugated to Lys residues of target proteins, however, in rare cases, conjugation to Cys or Ser residues has been observed. When polyubiquitin is free (unanchored-polyubiquitin), it also has distinct roles, such as in activation of protein kinases, and in signaling.

Cellular Location
[Ubiquitin]: Cytoplasm. Nucleus. Mitochondrion outer membrane; Peripheral membrane protein

Anti-Ubiquitin Picoband Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-Ubiquitin Picoband Antibody - Images

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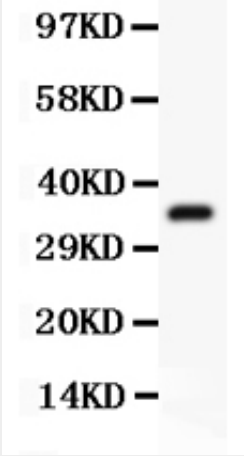
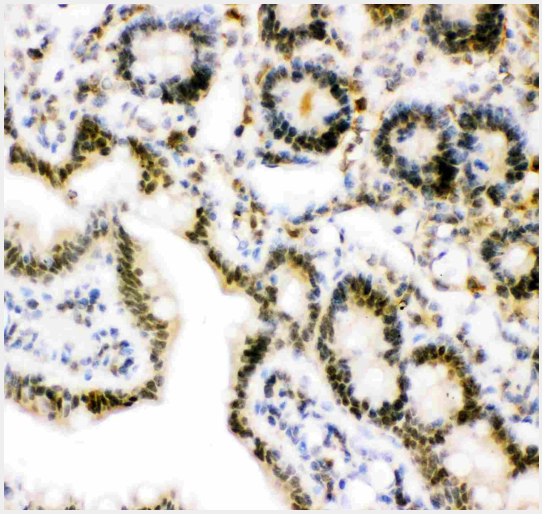
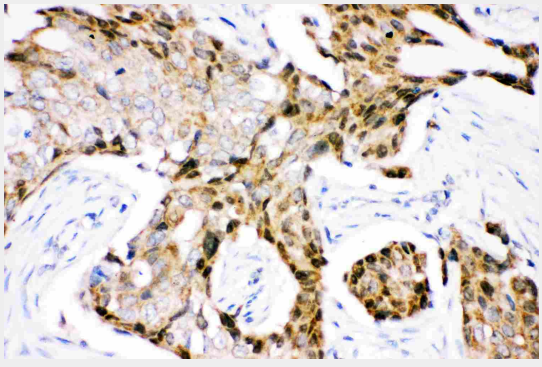


Anti- Ubiquitin Picoband antibody, ABO11824, Western blottingAll lanes: Anti Ubiquitin (ABO11824) at 0.5ug/mlWB: Recombinant Human Ubiquitin Protein 0.5ngPredicted bind size: 36KDObserved bind size: 36KD



Anti- Ubiquitin Picoband antibody, ABO11824, IHC(P)IHC(P): Rat Intestine Tissue



Anti- Ubiquitin Picoband antibody, ABO11824, IHC(P)IHC(P): Human Mammary Cancer Tissue

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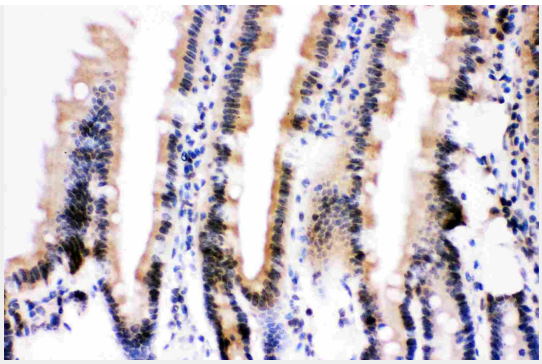

Anti- Ubiquitin Picoband antibody, ABO11824, IHC(P)IHC(P): Mouse Intestine Tissue

Anti-Ubiquitin Picoband Antibody - Background

Ubiquitin (originally, ubiquitous immunopoietic polypeptide) is a small regulatory protein that has been found in almost all tissues (ubiquitously) of eukaryotic organisms. Its gene is mapped to 16p 13.3. The ubiquitin protein itself consists of 76 amino acids and has a molecular mass of about 8.5 kDa. Ubiquitin binds to proteins and labels them for destruction. It directs protein recycling and also direct proteins to other locations in the cell, where they control other protein and cell mechanisms.