

**UBB(Ubiquitin) Antibody (N-term)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP20853a****Specification**

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**UBB(Ubiquitin) Antibody (N-term) - Product Information**

Application	WB,E
Primary Accession	<a href="#">P0CG47</a>
Other Accession	<a href="#">P62975</a> , <a href="#">P62972</a> , <a href="#">P0CG69</a> , <a href="#">P62976</a> , <a href="#">P0CG71</a> , <a href="#">O63429</a> , <a href="#">P0CG68</a> , <a href="#">P0CG50</a> , <a href="#">P0CG48</a> , <a href="#">P0CH28</a> , <a href="#">P0CG51</a> , <a href="#">P0CG49</a> , <a href="#">P0CG62</a> , <a href="#">P0CG53</a> , <a href="#">P62982</a> , <a href="#">P62983</a> , <a href="#">P62979</a> , <a href="#">P15357</a> , <a href="#">P79781</a> , <a href="#">P62992</a> , <a href="#">P62986</a> , <a href="#">P63053</a> , <a href="#">P62984</a> , <a href="#">P0C273</a> , <a href="#">P62987</a> , <a href="#">P18101</a> , <a href="#">P49632</a> , <a href="#">P63048</a> , <a href="#">P0C276</a> , <a href="#">O8MKD1</a> , <a href="#">P0CG55</a> , <a href="#">P0DXC2</a>
Reactivity	Human, Mouse, Rat
Predicted	Bovine, C.Elegans, Drosophila, Monkey, Pig, Rabbit, Sheep, Chicken, Horse, Hamster, Xenopus
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	25762

**UBB(Ubiquitin) Antibody (N-term) - Additional Information****Gene ID** 7314**Other Names**

Polyubiquitin-B, Ubiquitin, UBB

**Target/Specificity**

This UBB(Ubiquitin) antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 25-57amino acids from the N-terminal region of human UBB(Ubiquitin).

**Dilution**

WB~~1:1000

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

UBB(Ubiquitin) Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

## UBB(Ubiquitin) Antibody (N-term) - 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

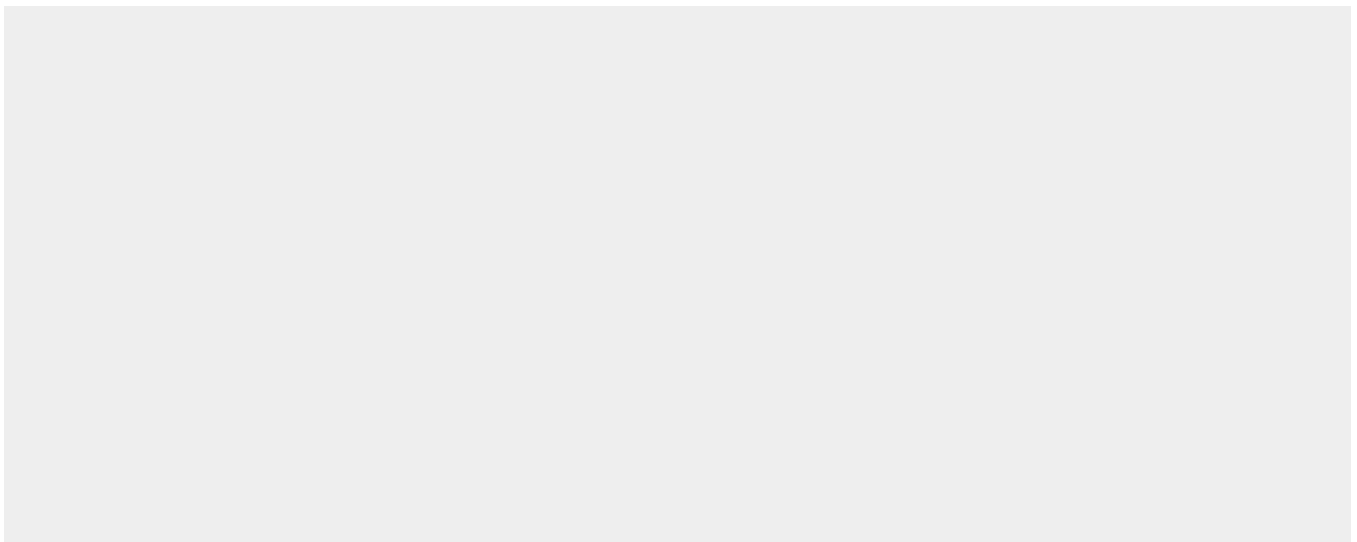
[Ubiquitin]: Cytoplasm. Nucleus. Mitochondrion outer membrane; Peripheral membrane protein

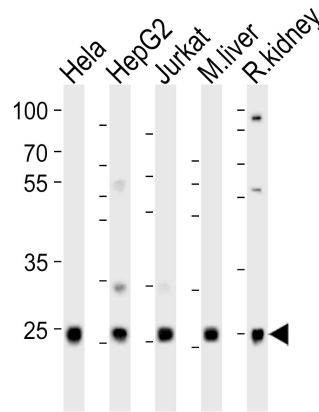
## UBB(Ubiquitin) Antibody (N-term) - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## UBB(Ubiquitin) Antibody (N-term) - Images





Western blot analysis of lysates from HeLa, HepG2, Jurkat cell line, mouse liver, rat kidney tissue (from left to right), using UBB(Ubiquitin) Antibody (N-term) (Cat. #AP20853a). AP20853a was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysates at 20ug per lane.

#### **UBB(Ubiquitin) Antibody (N-term) - Background**

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 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. 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.

#### **UBB(Ubiquitin) Antibody (N-term) - References**

Baker R.T., et al. *Nucleic Acids Res.* 15:443-463(1987).  
 Tachikui H., et al. *J. Mol. Evol.* 57:737-744(2003).  
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