abcam

Product datasheet

Anti-Ubiquitin antibody ab19247

5 Abreviews 53 References 2 Images

Overview

Product name	Anti-Ubiquitin antibody
Description	Rabbit polyclonal to Ubiquitin
Host species	Rabbit
Specificity	It can identify free ubiquitin as well as ubiquinated proteins. The antibody recognizes polyubiquitin chains more strongly than monoubiquitinated molecules.
Tested applications	**Suitable for:** WB
Species reactivity	**Reacts with:** Mouse, Human, Saccharomyces cerevisiae
Immunogen	Full length native protein (purified) corresponding to Cow Ubiquitin conjugated to Keyhole Limpet Haemocyanin (KLH).
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.20 Preservative: 0.09% Sodium azide Constituents: PBS, 50% Glycerol
Purity	Protein A purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab19247 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

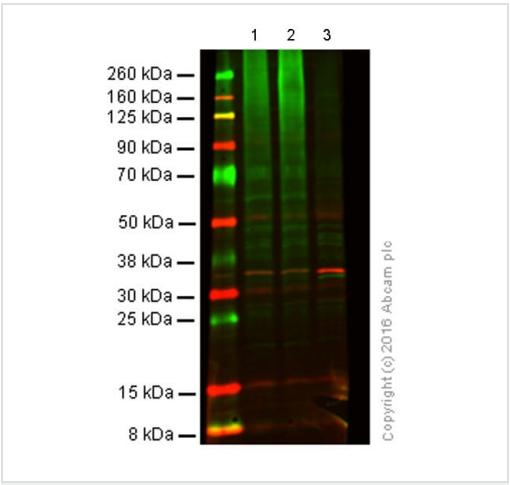
Application	Abreviews	Notes
WB	★★★★☆ **(3)**	1/1000 - 1/5000. Predicted molecular weight: 10 kDa.

Target

Relevance 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 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. Similarity: Belongs to the ubiquitin family. Contains 3 ubiquitin-like domains.

Cellular localization Cell Membrane, Cytoplasmic and Nuclear

Images



Western blot - Anti-Ubiquitin antibody (ab19247)

All lanes :

Lane 1 : HeLa cell lysate (Control, untreated)

Lane 2 : HeLa cells treated with MG132 (50 uM for 90 min)

Lane 3 : Mouse Brain

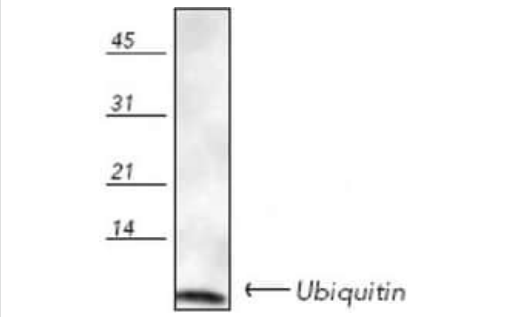
Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

Predicted band size: 10 kDa

This blot was produced using a 4-12% Bis-tris gel under the MES buffer system. The gel was run at 200V for 35 minutes before being

transferred onto a nitrocellulose membrane at 30V for 70 minutes. ab19247 and **ab8245 (loading control to GAPDH)** were diluted 1/200 and 1/10000 respectively and incubated overnight at 4°C. Blots were developed with goat anti-rabbit IgG (H + L) and goat anti-mouse IgG (H + L) secondary antibodies at 1/10 000 dilution for 1 h at room temperature before imaging using the Licor Odyssey CLx.



Western blot - Anti-Ubiquitin antibody (ab19247)

Anti-Ubiquitin antibody (ab19247) at 1/1000 dilution + Heat-shocked HeLa cell lysate

Predicted band size: 10 kDa

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