

Anti-Ubiquitin (linkage-specific K63) antibody [EPR8590-448] ab179434

 RabMAB

★★★★★ **6 Abreviews** **75 References** **8 图像**

概述

产品名称	Anti-Ubiquitin (linkage-specific K63)抗体[EPR8590-448]
描述	兔单克隆抗体[EPR8590-448] to Ubiquitin (linkage-specific K63)
宿主	Rabbit
经测试应用	适用于: Flow Cyt (Intra), WB, IHC-P
种属反应性	与反应: Mouse, Rat, Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	WB: K63-linked-Ub2-7 recombinant protein, HEK-293 and HeLa cell lysates, and Mouse and rat brain lysate. IHC-P: Human kidney carcinoma and tonsil tissue. Flow Cyt (intra): HeLa cells.
常规说明	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAB[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAB[®] patents.</p>

性能

形式	Liquid
存放说明	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.
存储溶液	<p>Preservative: 0.01% Sodium azide</p> <p>Constituents: 59% PBS, 40% Glycerol, 0.05% BSA</p>
纯度	Protein A purified
克隆	单克隆
克隆编号	EPR8590-448
同种型	IgG

应用

The Abpromise guarantee

Abpromise™ 承诺保证使用 ab179434 于以下的经测试应用

“应用说明”部分 下显示的仅为推荐的起始稀释度；实际最佳的稀释度/浓度应由使用者检定。

应用	Ab 评论	说明
Flow Cyt (Intra)		1/210.
WB	★★★★★ (4)	1/1000. Predicted molecular weight: 77 kDa.
IHC-P		1/250 - 1/500. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. For unpurified, use 1/100 - 1/250.

靶标

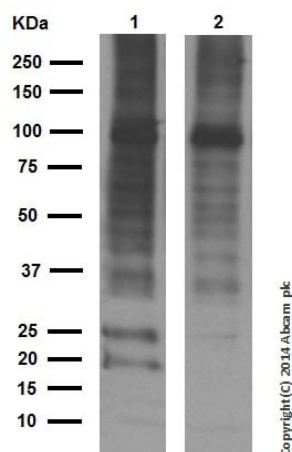
相关性

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.

细胞定位

Cell Membrane, Cytoplasmic and Nuclear

图片



Western blot - Anti-Ubiquitin (linkage-specific K63) antibody [EPR8590-448] (ab179434)

All lanes : Anti-Ubiquitin (linkage-specific K63) antibody [EPR8590-448] (ab179434) at 1/1000 dilution (purified)

Lane 1 : HEK-293 (human epithelial cell line from embryonic kidney) cell lysate

Lane 2 : HeLa (human epithelial cell line from cervix adenocarcinoma) cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

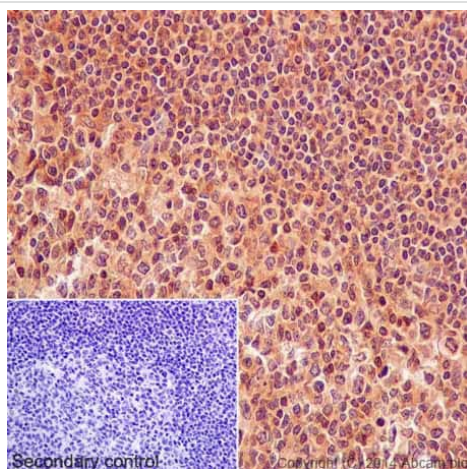
All lanes : HRP goat anti-rabbit (H+L) at 1/1000 dilution

Predicted band size: 77 kDa

Observed band size: 16-300 kDa

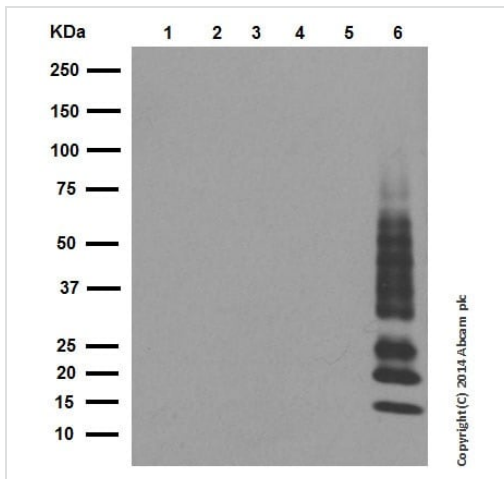
Blocking buffer: 5% NFDM/TBST

Dilution buffer: 5% NFDM/TBST



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Ubiquitin (linkage-specific K63) antibody [EPR8590-448] (ab179434)

Immunohistochemical staining of paraffin embedded human tonsil with purified ab179434 at a dilution of 1/500. The secondary antibody used is a HRP conjugated goat anti-rabbit ([ab97051](#), 1/500). The sample is counter-stained with hematoxylin. Antigen retrieval was performed using Tris-EDTA buffer, pH 9.0. PBS was used instead of the primary antibody as the negative control, and is shown in the inset.



Western blot - Anti-Ubiquitin (linkage-specific K63)
antibody [EPR8590-448] (ab179434)

All lanes : Anti-Ubiquitin (linkage-specific K63) antibody
[EPR8590-448] (ab179434) at 1/5000 dilution (purified)

Lane 1 : K6-linked-Ub2 recombinant protein

Lane 2 : K11-linked-Ub2 recombinant protein

Lane 3 : K29-linked-Ub2 recombinant protein

Lane 4 : K33-linked-Ub2 recombinant protein

Lane 5 : K48-linked-Ub2 recombinant protein

Lane 6 : K63-linked-Ub2 recombinant protein

Lysates/proteins at 20 µg per lane.

Secondary

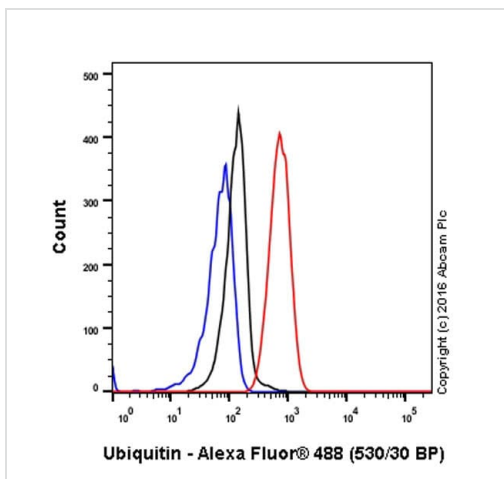
All lanes : HRP goat anti-rabbit (H+L) at 1/1000 dilution

Predicted band size: 77 kDa

Observed band size: 16-70 kDa

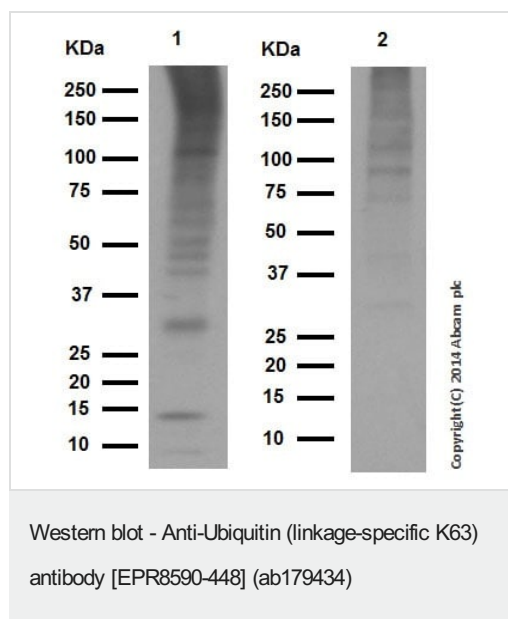
Blocking buffer: 5% NFDM/TBST

Dilution buffer: 5% NFDM/TBST



Flow Cytometry (Intracellular) - Anti-Ubiquitin
(linkage-specific K63) antibody [EPR8590-448]
(ab179434)

Intracellular Flow Cytometry analysis of HeLa (human cervix adenocarcinoma) cells labelling Ubiquitin (linkage-specific K63) with purified ab179434 at 1/210 (red). Cells were fixed with 4% paraformaldehyde and permeabilised with 90% methanol. An Alexa Fluor®488-conjugated goat anti-rabbit IgG (1/2000) was used as the secondary antibody. Black - Isotype control, rabbit monoclonal IgG. Blue - Unlabelled control, cells without incubation with primary and secondary antibodies.



All lanes : Anti-Ubiquitin (linkage-specific K63) antibody [EPR8590-448] (ab179434) at 1/1000 dilution (purified)

Lane 1 : Mouse brain tissue lysate

Lane 2 : Rat brain tissue lysate

Lysates/proteins at 20 µg per lane.

Secondary

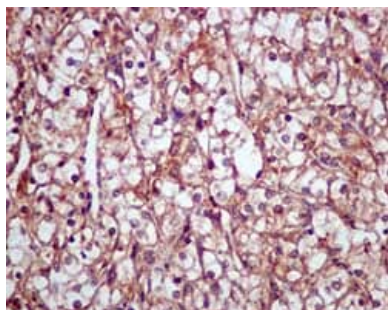
All lanes : HRP goat anti-rabbit (H+L) at 1/1000 dilution

Predicted band size: 77 kDa

Observed band size: 16-300 kDa

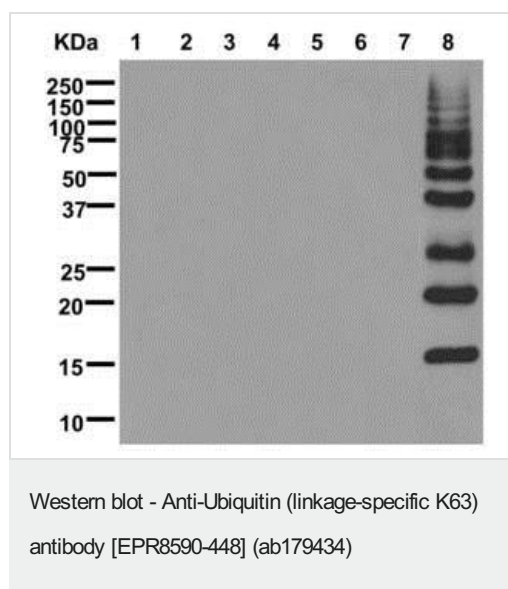
Blocking buffer: 5% NFDM/TBST

Dilution buffer: 5% NFDM/TBST



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Ubiquitin (linkage-specific K63) antibody [EPR8590-448] (ab179434)

Immunohistochemical analysis of paraffin-embedded human kidney carcinoma tissue labeling K63-linkage specific polyubiquitin with unpurified ab179434 at 1/100 dilution.



All lanes : Anti-Ubiquitin (linkage-specific K63) antibody [EPR8590-448] (ab179434) at 1/1000 dilution (unpurified)

Lane 1 : Ubiquitin recombinant protein

Lane 2 : K6-linked-Ub2 recombinant protein

Lane 3 : K11-linked-Ub2 recombinant protein

Lane 4 : K27-linked-Ub2 recombinant protein

Lane 5 : K29-linked-Ub2 recombinant protein

Lane 6 : K33-linked-Ub2 recombinant protein

Lane 7 : K48-linked-Ub2-7 recombinant protein

Lane 8 : K63-linked-Ub2-7 recombinant protein

Lysates/proteins at 0.02 µg per lane.

Predicted band size: 77 kDa

Why choose a recombinant antibody?

Research with confidence
Consistent and reproducible results

Long-term and scalable supply
Recombinant technology

Success from the first experiment
Confirmed specificity

Ethical standards compliant
Animal-free production

Anti-Ubiquitin (linkage-specific K63) antibody [EPR8590-448] (ab179434)

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