abcam

Product datasheet

Anti-Ubiquitin (linkage-specific K27) antibody [EPR17034] ab181537

יעלאעבע RabMAb

★★★★★ <u>1 Abreviews</u> <u>1</u>4 References 画像数 10

製品の概要

製品名 Anti-Ubiquitin (linkage-specific K27) antibody [EPR17034]

製品の詳細 Rabbit monoclonal [EPR17034] to Ubiquitin (linkage-specific K27)

由来種 Rabbit

アプリケーション 適用あり: IHC-P, WB, Flow Cyt (Intra), ICC/IF

種交差性 交差種: Mouse, Rat, Human, Recombinant fragment

免疫原 Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.

ポジティブ・コントロール WB: K27-linked-Ub2 recombinant protein. C6, RAW 264.7, PC-12, NIH/3T3, HeLa, 293T and

> Jurkat whole cell lysates. Rat and Mouse brain, heart, kidney and spleen lysates. IHC-P: Human transitional cell carcinoma of bladder tissue. Mouse and Rat spleen tissue. Flow Cyt (intra): Jurkat

cells.

特記事項 This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility

- Improved sensitivity and specificity

- Long-term security of supply

- Animal-free production

For more information see here.

Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb**® **patents**.

製品の特性

製品の状態

保存方法 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.

バッファー Preservative: 0.01% Sodium azide

Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA

精製度 Protein A purified

ポリモノ モノクローナル

クローン名

EPR17034

アイソタイプ

lgG

アプリケーション

The Abpromise guarantee <u>Abpromise保証は、</u>次のテスト済みアプリケーションにおけるab181537の使用に適用されます アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
IHC-P		1/500. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
WB		1/5000. Actual Band: 14kDa and above.
Flow Cyt (Intra)		1/160. ab172730 - Rabbit monoclonal lgG, is suitable for use as an isotype control with this antibody.
ICC/IF		1/500.

ターゲット情報

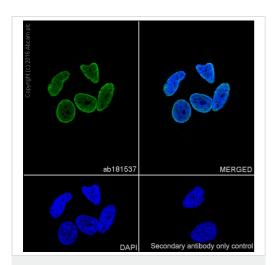
関連性

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-11linked 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 ubiquitinlike domains.

細胞内局在

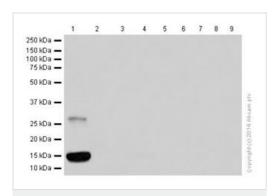
Cell Membrane, Cytoplasmic and Nuclear

画像



Immunocytochemistry/ Immunofluorescence - Anti-Ubiquitin (linkage-specific K27) antibody [EPR17034] (ab181537)

Immunocytochemistry/Immunofluorescence analysis of HeLa (Human epithelial cell line from cervix adenocarcinoma) labelling Ubiquitin (linkage-specific K27) with purified ab181537 at 1/1000. Cells were fixed with 4% PFA and permeabilized with 0.1% triton X-100. ab150077 Goat anti rabbit IgG (Alexa Fluor® 488) at 1/1000 was used as the secondary antibody. Nuclei were counterstained with DAPI. PBS was used instead of the primary antibody as the negative control.



Western blot - Anti-Ubiquitin (linkage-specific K27) antibody [EPR17034] (ab181537)

All lanes : Anti-Ubiquitin (linkage-specific K27) antibody [EPR17034] (ab181537) at 1/5000 dilution

Lane 1: K27-linked-Ub2 recombinant protein

Lane 2: K6-linked-Ub2 recombinant protein

Lane 3: K11-linked-Ub2 recombinant protein

Lane 4: K29-linked-Ub2 recombinant protein

Lane 5: K33-linked-Ub2 recombinant protein

Lane 6: K48-linked-Ub2 recombinant protein

Lane 7: K63-linked-Ub2 recombinant protein

Lane 8: Ubiquitin recombinant protein

Lane 9: Ubiquitin linear recombinant protein

Lysates/proteins at 0.02 µg per lane.

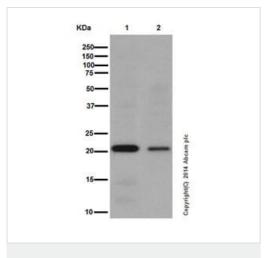
Secondary

All lanes : Goat Anti-Rabbit IgG, (H+L),Peroxidase conjugated at 1/1000 dilution

Blocking/dilution buffer: 5% BSA/TBST.

Expected MW is ~17kDa (8.5*2)

The ~30kDa band may be the dimer of K27-linked-Ub2 recombinant protein.



Western blot - Anti-Ubiquitin (linkage-specific K27) antibody [EPR17034] (ab181537)

All lanes : Anti-Ubiquitin (linkage-specific K27) antibody [EPR17034] (ab181537) at 1/50000 dilution

Lane 1 : 293T (Human epithelial cells from embryonic kidney) whole cell lysates

Lane 2 : Jurkat (Human T cell leukemia cells from peripheral blood) whole cell lysates

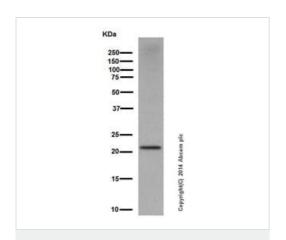
Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG, (H+L),Peroxidase conjugated at 1/1000 dilution

Observed band size: 26 kDa

Blocking/Dilution buffer: 5% BSA/TBST.



Western blot - Anti-Ubiquitin (linkage-specific K27) antibody [EPR17034] (ab181537)

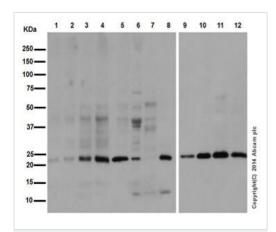
Anti-Ubiquitin (linkage-specific K27) antibody [EPR17034] (ab181537) at 1/5000 dilution + HeLa (Human epithelial cells from cervix adenocarcinoma) whole cell lysates at 10 µg

Secondary

Goat Anti-Rabbit lgG, (H+L),Peroxidase conjugated at 1/1000 dilution

Observed band size: 26 kDa

Blocking/dilution buffer: 5% BSA/TBST.



Western blot - Anti-Ubiquitin (linkage-specific K27) antibody [EPR17034] (ab181537)

All lanes : Anti-Ubiquitin (linkage-specific K27) antibody [EPR17034] (ab181537) at 1/5000 dilution

Lane 1: Mouse brain lysates

Lane 2: Mouse heart lysates

Lane 3: Mouse kidney lysates

Lane 4: Mouse spleen lysates

Lane 5: Rat brain lysates

Lane 6: Rat heart lysates

Lane 7: Rat kidney lysates

Lane 8: Rat spleen lysates

Lane 9: C6 (Rat glial tumor cells) whole cell lysates

Lane 10: RAW 264.7 (Mouse macrophage cells transformed with

Abelson murine leukemia virus) whole cell lysates

Lane 11: PC-12 (Rat adrenal gland pheochromocytoma) whole cell lysates

Lane 12: NIH/3T3 (Mouse embyro fibroblast cells) whole cell lysates

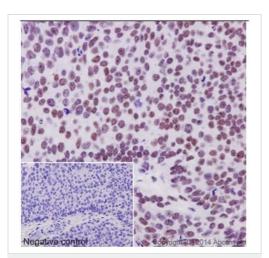
Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG, (H+L),Peroxidase conjugated at 1/1000 dilution

Observed band size: 14,26 kDa

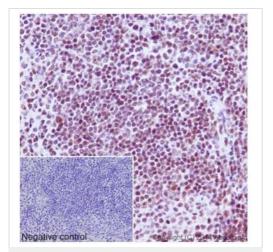
Blocking/dilution buffer: 5% BSA/TBST.



Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-Ubiquitin (linkage-specific K27) antibody [EPR17034] (ab181537)

Immunohistochemical analysis of paraffin-embedded Human transitional cell carcinoma of bladder labeling Ubiquitin (linkage-specific K27) with ab181537 at 1/500 dilution followed by Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution. Nuclear staining on cancer cells of Human bladder transitional cell carcinoma is observed. Counter stained with Hematoxylin. Negative control: Used PBS instead of primary antibody.

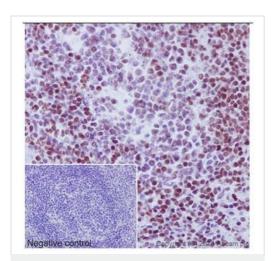
Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-Ubiquitin (linkage-specific K27) antibody [EPR17034] (ab181537)

Immunohistochemical analysis of paraffin-embedded Mouse spleen tissue labeling Ubiquitin (linkage-specific K27) with ab181537 at 1/500 dilution followed by Goat Anti-Rabbit lgG H&L (HRP) (ab97051) at 1/500 dilution. Nuclear staining on lymphocytes of Mouse spleen is observed. Counter stained with Hematoxylin. Negative control: Used PBS instead of primary antibody.

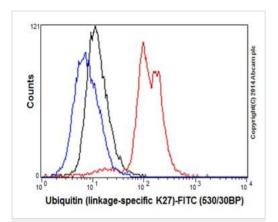
Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-Ubiquitin (linkage-specific K27) antibody [EPR17034] (ab181537)

Immunohistochemical analysis of paraffin-embedded Rat spleen tissue labeling Ubiquitin (linkage-specific K27) with ab181537 at 1/500 dilution followed by Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution. Nuclear staining on lymphocytes of Rat spleen is observed. Counter stained with Hematoxylin. Negative control: Used PBS instead of primary antibody.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Flow Cytometry (Intracellular) - Anti-Ubiquitin (linkage-specific K27) antibody [EPR17034] (ab181537)

Intracellular flow cytometric analysis of 2% paraformal dehydefixed Jurkat (Human T cell leukemia cells from peripheral blood) cells labeling Ubiquitin (linkage-specific K27) with ab 181537 at 1/160 dilution (red). The secondary antibody was Goat anti rabbit lgG (FITC) at 1/150 dilution. The isotype control is Rabbit monoclonal lgG (black) and cell without incubation with primary antibody and secondary antibody is blue.



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