

Anti-MAPK6/ERK3 antibody [EP1720Y] ab53277

敲除验证 重组 RabMAb

★★★★★ [1 Abreviews](#) [25 References](#) [6 图像](#)

概述

产品名称	Anti-MAPK6/ERK3抗体[EP1720Y]
描述	兔单克隆抗体[EP1720Y] to MAPK6/ERK3
宿主	Rabbit
特异性	The mouse and rat recommendation is based on the WB results. We do not guarantee IHC-P for mouse and rat.
经测试应用	适用于: WB, IHC-P 不适用于: Flow Cyt or ICC/IF
种属反应性	与反应: Mouse, Rat, Human
免疫原	Synthetic peptide within Human MAPK6/ERK3 aa 1-100 (N terminal). The exact sequence is proprietary. Database link: Q16659
阳性对照	WB: Wild-type HAP1, A431, C2C12, 2.4G2 and HeLa (ab150035) whole cell lysates, and rat brain tissue lysates. IHC-P: Human kidney carcinoma and breast carcinoma tissues.
常规说明	The mouse and rat recommendation is based on the WB results. We do not guarantee IHC-P for mouse and rat. 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 .

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. Avoid freeze / thaw cycle.
存储溶液	pH: 7.20

Preservative: 0.01% Sodium azide
Constituents: 59% PBS, 40% Glycerol, 0.05% BSA

纯度 Protein A purified
克隆 单克隆
克隆编号 EP1720Y
同种型 IgG

应用

The Abpromise guarantee **Abpromise™**承诺保证使用ab53277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。

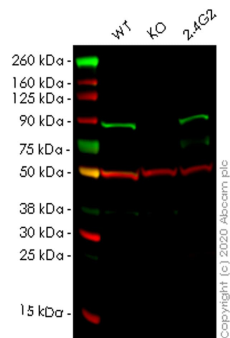
应用	Ab评论	说明
WB	★☆☆☆☆ (1)	1/1000 - 1/10000. Detects a band of approximately 105 kDa (predicted molecular weight: 63 kDa).
IHC-P		1/100. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. For unpurified use at 1/50

应用说明 Is unsuitable for Flow Cyt or ICC/IF.

靶标

功能 Phosphorylates microtubule-associated protein 2 (MAP2). May promote entry in the cell cycle.
组织特异性 Highest expression in the skeletal muscle, followed by the brain. Also found in heart, placenta, lung, liver, pancreas, kidney and skin fibroblasts.
序列相似性 Belongs to the protein kinase superfamily. CMGC Ser/Thr protein kinase family. MAP kinase subfamily.
Contains 1 protein kinase domain.
结构域 The TXY motif contains the threonine and tyrosine residues whose phosphorylation activates the MAP kinases.
翻译后修饰 Dually phosphorylated on Thr-626 and Tyr-628, which activates the enzyme.

图片



Western blot - Anti-MAPK6/ERK3 antibody [EP1720Y] (ab53277)

All lanes : Anti-MAPK6/ERK3 antibody [EP1720Y] (ab53277) at 1/1000 dilution

Lane 1 : Wild-type HeLa cell lysate

Lane 2 : MAPK6 knockout HeLa cell lysate

Lane 3 : 2.4G2 (Rat B cell lymphoma B lymphocyte) cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

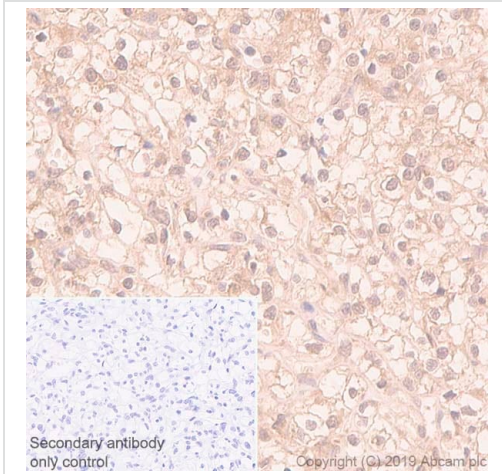
All lanes : Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) at 1/10000 dilution

Predicted band size: 63 kDa

Observed band size: 90 kDa

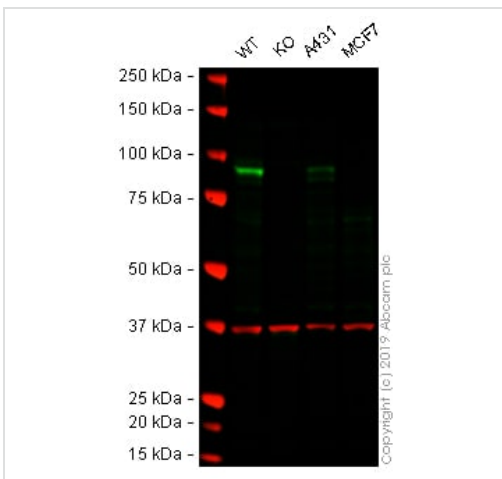
Lanes 1-3: Merged signal (red and green). Green - ab53277 observed at 90 kDa. Red - loading control **ab8245** observed at 36 kDa.

ab53277 Anti-MAPK6/ERK3 antibody [EP1720Y] was shown to specifically react with MAPK6/ERK3 in wild-type HeLa cells. Loss of signal was observed when knockout cell line **ab264910** (knockout cell lysate **ab257526**) was used. Wild-type and MAPK6/ERK3 knockout samples were subjected to SDS-PAGE. ab53277 and Anti-GAPDH antibody [6C5] - Loading Control (**ab8245**) were incubated at room temperature for 2.5 hours at 1 in 1000 dilution and 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed (**ab216776**) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MAPK6/ERK3 antibody [EP1720Y] (ab53277)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human kidney carcinoma tissue sections labeling MAPK6/ERK3 with Purified ab53277 at 1:100 dilution (13.52 µg/ml). Perform heat mediated antigen retrieval using **ab93684** (Tris/EDTA buffer, pH 9.0). Purified ImmunoHistoProbe one step HRP Polymer (ready to use) was used for detection. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.



Western blot - Anti-MAPK6/ERK3 antibody [EP1720Y] (ab53277)

All lanes : Anti-MAPK6/ERK3 antibody [EP1720Y] (ab53277) at 1/1000 dilution

Lane 1 : Wild-type HAP1 whole cell lysate

Lane 2 : MAPK6 knockout HAP1 whole cell lysate

Lane 3 : A431 whole cell lysate

Lane 4 : MCF7 whole cell lysate

Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

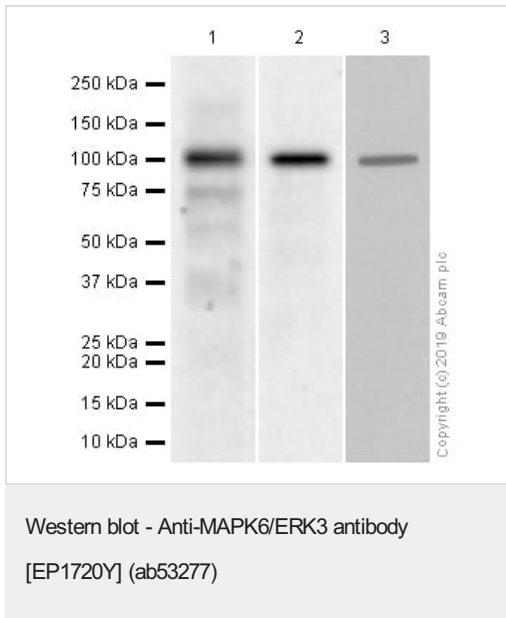
Predicted band size: 63 kDa

Observed band size: 90 kDa

Lanes 1 - 4: Merged signal (red and green). Green - ab53277 observed at 90 kDa. Red - loading control, **ab8245** (Mouse anti-GAPDH antibody [6C5]) observed at 37kDa.

ab53277 was shown to react with MAPK6 in HAP1 wild-type cells in Western blot. Loss of signal was observed when MAPK6 knockout sample was used. HAP1 wild-type and MAPK6 knockout whole cell lysates were subjected to SDS-PAGE. Membranes were blocked in 3% Milk in TBS-T (0.1% Tween®) before incubation with ab53277 and **ab8245** (Mouse anti-GAPDH antibody [6C5])

overnight at 4°C at a 1 in 1000 dilution and a 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed ([ab216773](#)) and Goat anti-Mouse IgG H&L (IRDye® 800CW) preabsorbed ([ab216772](#)) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



All lanes : Anti-MAPK6/ERK3 antibody [EP1720Y] (ab53277) at 1/1000 dilution (Purified)

Lane 1 : HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates

Lane 2 : Rat brain lysates

Lane 3 : C2C12 (Mouse myoblasts myoblast) whole cell lysates

Lysates/proteins at 15 µg per lane.

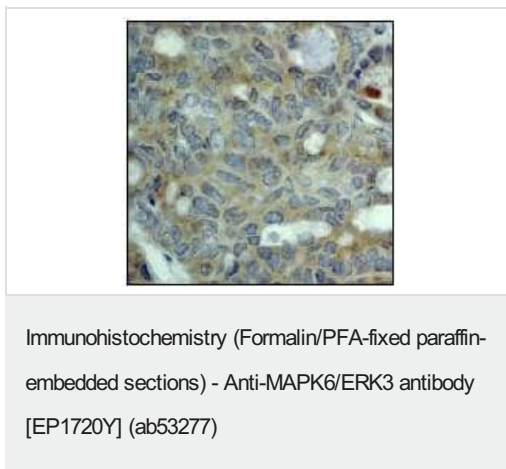
Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

Predicted band size: 63 kDa

Observed band size: 105 kDa

The molecular weight observed is consistent with what has been described in PMID:30642948 and 30166347



Unpurified ab53277 (1:50) staining human MAPK6/ERK3 in human breast carcinoma tissue by immunohistochemistry using paraffin embedded tissue.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

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-MAPK6/ERK3 antibody [EP1720Y] (ab53277)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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