abcam

Product datasheet

Anti-Thymidine Kinase 1/TK1 antibody [EPR3193] ab76495





重组 RabMAb

★★★★★ 2 Abreviews 23 References 7 图像

概述

产品名称 Anti-Thymidine Kinase 1/TK1抗体[EPR3193]

描述 兔单克隆抗体[EPR3193] to Thymidine Kinase 1/TK1

宿主 Rabbit

经测试应用 适用于: Flow Cyt (Intra), WB, IP, IHC-P

种属反应性 与反应: Human

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

阳性对照 WB: HEK-293T, Jurkat, HAP1, SW620, U-2 OS, and MOLT-4 cell lysates. Human tonsil tissue

lysate; IP: MOLT-4 whole cell lysate; IHC-P: Human tonsil tissue; Flow Cyt (intra): HeLa cells.

常规说明 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**.

Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with

these species. Please contact us for more information.

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 pH: 7.20

Preservative: 0.01% Sodium azide

Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA

纯度 Protein A purified

克隆 单克隆

克隆编号 EPR3193

同种型 IgG

应用

The Abpromise guarantee Abpromise™承诺保证使用ab76495于以下的经测试应用

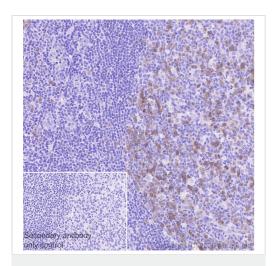
"应用说明"部分下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
Flow Cyt (Intra)		1/200. For unpurified use at 1/70 <u>ab172730</u> - Rabbit monoclonal lgG, is suitable for use as an isotype control with this antibody.
WB		1/1000. Detects a band of approximately 25 kDa (predicted molecular weight: 25 kDa). For unpurified use at 1/5000 - 1/50000
IP		1/20.
IHC-P		1/100 - 1/250. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. See IHC antigen retrieval protocols .

靶标

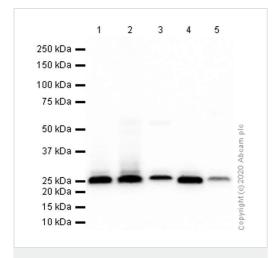
序列相似性 Belongs to the thymidine kinase family.
翻译后修饰 Phosphorylated on Ser-13 in mitosis.
细胞定位 Cytoplasm.

图片



Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-Thymidine Kinase 1/TK1 antibody [EPR3193] (ab76495)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human tonsil tissue sections labeling Thymidine Kinase 1/TK1 with purified ab76495 at 1/200 dilution (0.85 µg/mL). Heat mediated antigen retrieval using Bond™ Epitope Retrieval Solution 2 (pH 9.0). The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Rabbit specific IHC polymer detection kit HRP/DAB (ab209101) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.



Western blot - Anti-Thymidine Kinase 1/TK1 antibody [EPR3193] (ab76495)

All lanes : Anti-Thymidine Kinase 1/TK1 antibody [EPR3193] (ab76495) at 1/1000 dilution (Purified)

Lane 1 : MOLT-4 (Human lymphoblastic leukemia T lymphoblast) whole cell lysate

Lane 2: U-2 OS (Human bone osteosarcoma epithelial cell) whole cell lysate

Lane 3 : SW620 (Human colorectal adenocarcinoma epithelial cell) whole cell lysate

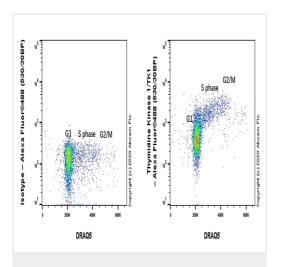
Lane 4 : Jurkat (Human T cell leukemia T lymphocyte) whole cell lysate

Lane 5: Human tonsil lysate

Secondary

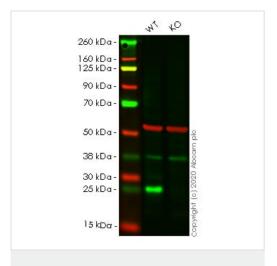
All lanes : Goat Anti-Rabbit IgG (HRP) with minimal cross-reactivity with human IgG at 1/2000 dilution

Predicted band size: 25 kDa



Flow Cytometry (Intracellular) - Anti-Thymidine Kinase 1/TK1 antibody [EPR3193] (ab76495)

Intracellular Flow Cytometry analysis of HeLa (Human cervix adenocarcinoma epithelial cell) cells labeling Thymidine Kinase 1/TK1 with Purified ab76495 at 1/200 dilution (0.1 μ g/ml) (Red). Cells were fixed with 4% Paraformaldehyde and permeabilised with 90% Methanol. A Goat anti rabbit lgG (Alexa Fluor 488 ,ab150077) secondary antibody was used at 1/2000. Isotype control - Rabbit monoclonal lgG (Left). Unlabeled control - /.



Western blot - Anti-Thymidine Kinase 1/TK1 antibody [EPR3193] (ab76495)

All lanes : Anti-Thymidine Kinase 1/TK1 antibody [EPR3193] (ab76495) at 1/1000 dilution

Lane 1: Wild-type HEK-293T cell lysate

Lane 2: TK1 knockout HEK-293T cell lysate

Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

Predicted band size: 25 kDa **Observed band size:** 25 kDa

Lanes 1-2: Merged signal (red and green). Green - ab76495 observed at 25 kDa. Red - Anti-alpha Tubulin antibody [DM1A] - Loading Control (ab7291) observed at 50 kDa.

ab76495 was shown to react with Thymidine Kinase 1/TK1 in wild-type HEK-293T cells in western blot. Loss of signal was observed when knockout cell line <u>ab266230</u> (knockout cell lysate <u>ab257745</u>)

was used. Wild-type HEK-293T and TK1 knockout HEK-293T cell lysates were subjected to SDS-PAGE. Membrane was blocked for 1 hour at room temperature in 0.1% TBST with 3% non-fat dried milk. ab76495 and Anti-alpha Tubulin antibody [DM1A] - Loading Control (ab7291) 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) 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.

260 kDa — 125 kDa — 25 kDa — 25 kDa — 15 kDa — 15 kDa — 15 kDa — 25 kDa — 2

Western blot - Anti-Thymidine Kinase 1/TK1 antibody [EPR3193] (ab76495)

Lane 1: Wild-type HAP1 whole cell lysate (20 µg)

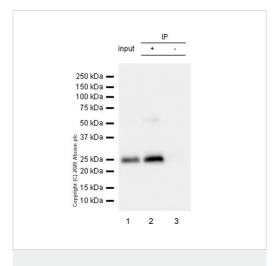
Lane 2: TK1 knockout HAP1 whole cell lysate (20 µg)

Lane 3: Jurkat whole cell lysate (20 µg)

Lane 4: MOLT4 whole cell lysate (20 µg)

Lanes 1 - 4: Merged signal (red and green). Green - ab76495 observed at 25 kDa. Red - loading control, **ab8245**, observed at 37 kDa.

ab76495 was shown to specifically react with TK1 in wildtype HAP1 cells. No band was observed when TK1 knockout samples were examined. Wild-type and TK1 knockout samples were subjected to SDS-PAGE. Ab76495 and ab8245 (Mouse anti GAPDH loading control) were incubated overnight at 4°C at 1/5000 dilution and 1/10,000 dilution respectively. Blots were developed with Goat anti-Rabbit lgG H&L (IRDye® 800CW) preabsorbed ab216773 and Goat anti-Mouse lgG H&L (IRDye® 680RD) preabsorbed ab216776 secondary antibodies at 1/20,000 dilution for 1 hour at room temperature before imaging.



Immunoprecipitation - Anti-Thymidine Kinase 1/TK1 antibody [EPR3193] (ab76495)

Purified ab76495 at 1/20 dilution (0.8µg) immunoprecipitating Thymidine Kinase 1/TK1 in MOLT-4 whole cell lysate.

Lane 1 (input): MOLT-4 (Human lymphoblastic leukemia T

Lane 2 (+): ab76495 + MOLT-4 whole cell lysate.

Lane 3 (-): Rabbit monoclonal lgG (<u>ab172730</u>) instead of ab76495 in MOLT-4 whole cell lysate.

VeriBlot for IP Detection Reagent (HRP) (<u>ab131366</u>) (1/1000 dilution) was used for Western blotting.

Blocking Buffer and concentration: 5% NFDM/TBST.

Diluting buffer and concentration: 5% NFDM/TBST.

Observed band size: 24 kDa

lymphoblast)



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