

Anti-AKT1 (pS473) + AKT2 (pS474) + AKT3 (pS472) antibody [EPR18853] - BSA and Azide free ab222489

重组 RabMAb

★★★★★ [1 Abreviews](#) [2 References](#) [4 图像](#)

概述

产品名称	Anti-AKT1 (pS473) + AKT2 (pS474) + AKT3 (pS472)抗体[EPR18853] - BSA and Azide free
描述	兔单克隆抗体[EPR18853] to AKT3 (phospho S472) + AKT2 (phospho S474) + AKT1 (phospho S473) - BSA and Azide free
宿主	Rabbit
经测试应用	适用于: WB, ICC/IF, IP, Dot blot
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: MCF7 whole cell lysate treated with 100ng/ml IGF-1 for 15 minutes; PC-12 and NIH/3T3 whole cell lysates treated with 100ng/ml PDGF for 60 minutes. ICC/IF: NIH/3T3 cells treated with PDGF (100 ng/ml) for 1 hour. IP: NIH/3T3 treated with 50ng/ml PDGF for 40min whole cell lysate.
常规说明	ab222489 is the carrier-free version of ab192623 .

Our **carrier-free** antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.

This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.

Use our **conjugation kits** for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.

This product is compatible with the Maxpar[®] Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar[®] is a trademark of Fluidigm Canada Inc.

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. Do Not Freeze.
存储溶液	pH: 7.2 Constituent: PBS
无载体	是
纯度	Protein A purified
克隆	单克隆
克隆编号	EPR18853
同种型	IgG

应用

The Abpromise guarantee **Abpromise™** 承诺保证使用 ab222489 于以下的经测试应用

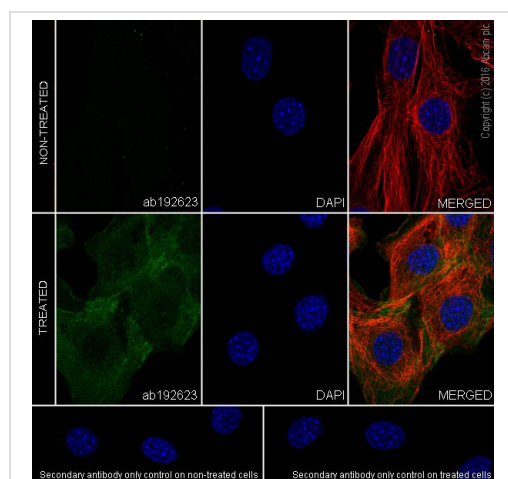
“应用说明”部分 下显示的仅为推荐的起始稀释度；实际最佳的稀释度/浓度应由使用者检定。

应用	Ab 评论	说明
WB	★★★★★ (1)	Use at an assay dependent concentration. Detects a band of approximately 56 kDa (predicted molecular weight: 56 kDa).
ICC/IF		Use at an assay dependent concentration.
IP		Use at an assay dependent concentration.
Dot blot		Use at an assay dependent concentration.

靶标

细胞定位 AKT3: Cytoplasm. Membrane. Membrane-associated after cell stimulation leading to its translocation. AKT1: Cytoplasm. Nucleus. Cell membrane. Nucleus after activation by integrin-linked protein kinase 1 (ILK1). Nuclear translocation is enhanced by interaction with TCL1A. Phosphorylation on Tyr-176 by TNK2 results in its localization to the cell membrane where it is targeted for further phosphorylations on Thr-308 and Ser-473 leading to its activation and the activated form translocates to the nucleus.

图片



Immunocytochemistry/ Immunofluorescence - Anti-AKT1 (pS473) + AKT2 (pS474) + AKT3 (pS472) antibody [EPR18853] - BSA and Azide free (ab222489)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized NIH/3T3 (Mouse embryonic fibroblast cell line) cells, untreated or treated with PDGF (100 ng/ml) for 1 hour, labeling AKT3 (phospho S472) + AKT2 (phospho S474) + AKT1 (phospho S473) with **ab192623** at 1/100 dilution, followed by Goat Anti-Rabbit IgG (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/1000 dilution (green).

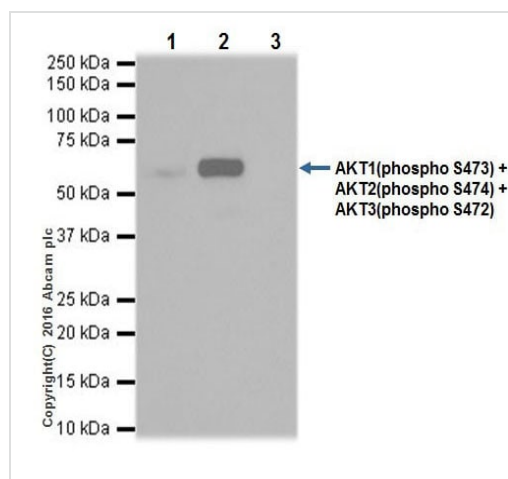
The signal increased after treatment with PDGF (100 ng/ml) for 1 hour on NIH/3T3 cells.

The nuclear counter stain is DAPI (blue).

Tubulin is detected with **ab195889** (Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594)) at 1/200 dilution (red).

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat anti-rabbit IgG (Alexa Fluor® 488) (**ab150077**) at 1/1000 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab192623**).



Immunoprecipitation - Anti-AKT1 (pS473) + AKT2 (pS474) + AKT3 (pS472) antibody [EPR18853] - BSA and Azide free (ab222489)

AKT3 (phospho S472) was immunoprecipitated from 0.35 mg of NIH/3T3 (Mouse embryonic fibroblast cell line) treated with 50ng/ml PDGF for 40min whole cell lysate with **ab192623** at 1/40 dilution.

Western blot was performed from the immunoprecipitate using **ab192623** at 1/500 dilution. VeriBlot for IP Detection Reagent (HRP) (**ab131366**), was used for detection at 1/1000 dilution.

Lane 1: NIH/3T3 treated with 50ng/ml PDGF for 40min whole cell lysate, 10µg (Input).

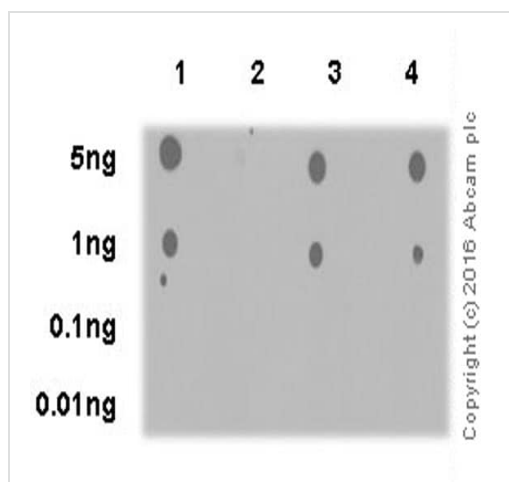
Lane 2: **ab192623** IP in NIH/3T3 treated with 50ng/ml PDGF for 40min whole cell lysate.

Lane 3: Rabbit IgG, monoclonal [EPR25A]-Isotype Control (**ab172730**) instead of **ab192623** in NIH/3T3 treated with 50ng/ml PDGF for 40min whole cell lysate.

Blocking and dilution buffer and concentration: 5% NFDM/TBST.

Exposure time: 5 seconds.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab192623**).



Dot Blot - Anti-AKT1 (pS473) + AKT2 (pS474) + AKT3 (pS472) antibody [EPR18853] - BSA and Azide free (ab222489)

Dot blot analysis of AKT3 (phospho S472) labeled with **ab192623** at 1/1000 dilution.

Lane 1: AKT3 (phospho S472) phospho peptide;

Lane 2: AKT3 non-phospho peptide;

Lane 3: AKT1 (phospho S473) phospho peptide;

Lane 4: AKT2 (phospho S474) phospho peptide.

Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (**ab97051**) at 1/100000 dilution was used as secondary antibody.

Blocking and diluting buffer: 5% NFDM/TBST.

Exposure time: 3 minutes.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab192623**).

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

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