

# Anti-Phosphotyrosine antibody [EPR16871] ab179530

**重组** RabMAb

**15 References**   **11 图像**

### 概述

产品名称	Anti-Phosphotyrosine抗体[EPR16871]
描述	兔单克隆抗体[EPR16871] to Phosphotyrosine
宿主	Rabbit
经测试应用	<b>适用于:</b> Flow Cyt (Intra), WB, ICC/IF, IP, ELISA, Dot blot
种属反应性	<b>与反应:</b> Species independent
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	WB: Whole cell lysate from A431, L6 and NIH/3T3 cells treated with pervanadate. ICC/IF: C2C12 cells treated with Hydrogen peroxide. Flow Cyt (intra): A431 cells treated with pervanadate. IP: Whole cell extract from A431 cells treated with pervanadate.
常规说明	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb® patents</a>.</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	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	EPR16871
同种型	IgG

## 应用

### The Abpromise guarantee

**Abpromise™** 承诺保证使用 ab179530 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。

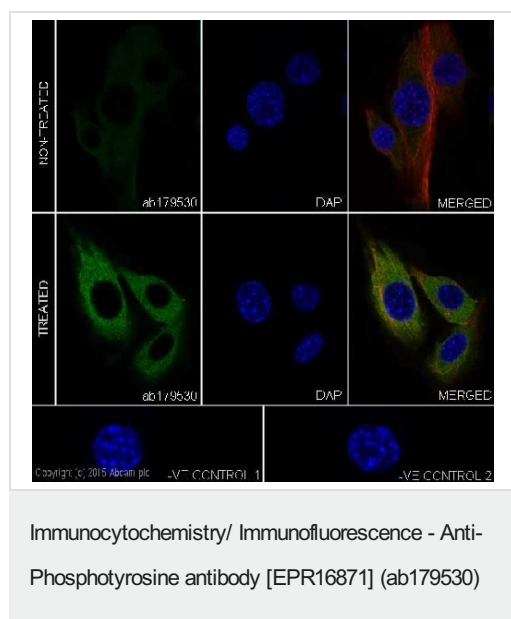
应用	Ab 评论	说明
Flow Cyt (Intra)		1/160. <b>ab172730</b> - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
WB		1/1000.
ICC/IF		1/100.
IP		1/100.
ELISA		1/6400.
Dot blot		1/1000.

## 靶标

### 相关性

The phosphorylation of specific tyrosine residues has been shown to be a primary mechanism of signal transduction during normal mitogenesis, cell cycle progression and oncogenic transformation, its role in other areas such as differentiation and gap junction communication, is a matter of active and ongoing research. Antibodies that specifically recognize phosphorylated tyrosine residues have proved to be invaluable to the study of tyrosine phosphorylated proteins and the biochemical pathways in which they function.

## 图片

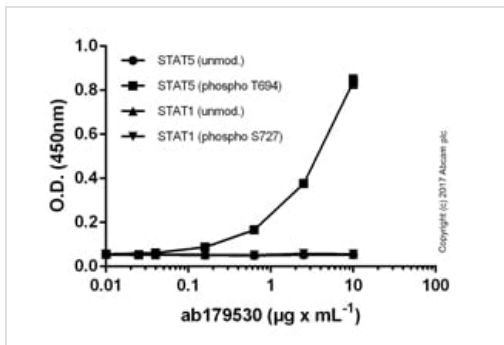


Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized C2C12 (Mouse myoblast cell line) cells labeling Phosphotyrosine with ab179530 at 1/100 dilution, followed by Goat anti-rabbit IgG (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/400 dilution (green). Cytoplasm staining on C2C12 cells is observed. The expression increased after treatment with H<sub>2</sub>O<sub>2</sub> (2mM) for 10 minutes. The nuclear counterstain is DAPI (blue). Tubulin is detected with **ab7291** (anti-Tubulin mouse mAb) at 1/500 dilution and **ab150120** (AlexaFluor®594 Goat anti-Mouse secondary) at 1/500 dilution (red).

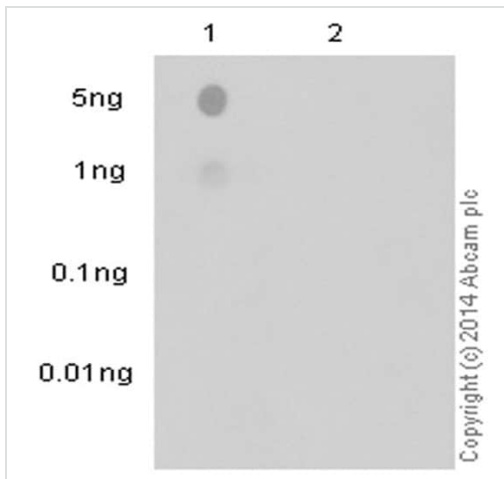
The negative controls are as follows:-

- ve control 1: - ab179530 at 1/100 dilution followed by **ab150120** (AlexaFluor®594 Goat anti-Mouse secondary) at 1/500 dilution.
- ve control 2: - **ab7291** (anti-Tubulin mouse mAb) at 1/500 dilution followed by **ab150077** (Alexa Fluor®488 Goat Anti-Rabbit IgG

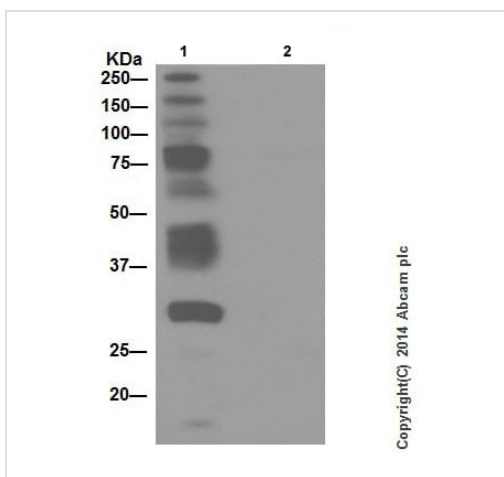
H&L) at 1/400 dilution.



ELISA - Anti-Phosphotyrosine antibody [EPR16871]  
(ab179530)



Dot Blot - Anti-Phosphotyrosine antibody  
[EPR16871] (ab179530)



Immunoprecipitation - Anti-Phosphotyrosine  
antibody [EPR16871] (ab179530)

Serially diluted ab179530 was bound to immobilised phospho- or control peptides (STAT1 (phospho S727), STAT1 control, STAT5 (phospho T694), STAT5 control); 1 microgram per mL).

The antibody was detected by Goat anti-Rabbit HRPO and signal was developed by TMB substrate.

Dot blot analysis of INSR/IGF-1R (pY1009) phospho peptide (lane 1) and INSR/IGF-1R non-phospho peptide (lane 2) labelling Phosphotyrosine with ab179530 at a dilution of 1/1000. A peroxidase-conjugated goat anti-rabbit IgG (H+L) was used as the secondary antibody (1/2500).

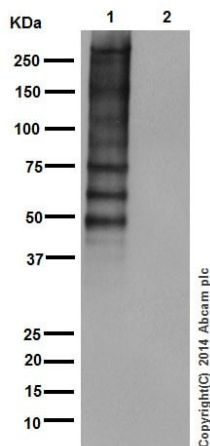
Blocking and dilution buffer: 5% NFDM/TBST.

Exposure time: 3 minutes.

Phosphotyrosine was immunoprecipitated from 1mg of A431 (Human epidermoid carcinoma) whole cell extract treated with 1mM pervanadate for 30 minutes with ab179530 at 1/100 dilution. Western blot was performed from the immunoprecipitate using ab179530 at 1/1000 dilution. Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG, was used as secondary antibody at 1/1500 dilution. Lane 1: A431 treated with 1mM pervanadate for 30 minutes whole cell extract. Lane 2: PBS instead of A431 whole cell extract.

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

Multiple bands represent phosph-tyrosine containing proteins precipitated and detected by ab179530.



Western blot - Anti-Phosphotyrosine antibody  
[EPR16871] (ab179530)

**All lanes** : Anti-Phosphotyrosine antibody [EPR16871] (ab179530)  
at 1/1000 dilution

**Lane 1** : Jurkat (Human T cell leukemia cells from peripheral blood)  
whole cell lysates treated with 1mM pervanadate for 20minutes

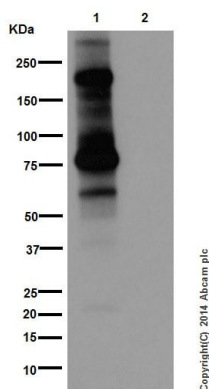
**Lane 2** : Untreated Jurkat whole cell lysates

Lysates/proteins at 10 µg per lane.

#### Secondary

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

Multiple bands represent phosph-tyrosine containing proteins  
detected by ab179530



Western blot - Anti-Phosphotyrosine antibody  
[EPR16871] (ab179530)

**All lanes** : Anti-Phosphotyrosine antibody [EPR16871] (ab179530)  
at 1/10000 dilution

**Lane 1** : A431 (Human epidermoid carcinoma) whole cell lysates  
treated with 50mM pervanadate for 30 minutes

**Lane 2** : Untreated A431 whole cell lysates

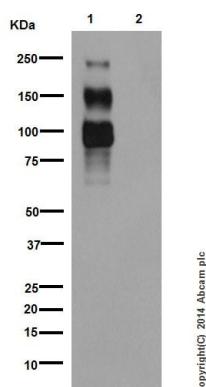
Lysates/proteins at 10 µg per lane.

#### Secondary

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

Multiple bands represent phosph-tyrosine containing proteins  
detected by ab179530.

Blocking/Dilution buffer: 5% NFDm/TBST.



Western blot - Anti-Phosphotyrosine antibody  
[EPR16871] (ab179530)

**All lanes** : Anti-Phosphotyrosine antibody [EPR16871] (ab179530)  
at 1/1000 dilution

**Lane 1** : NIH/3T3 (Mouse embryo fibroblast cells) whole cell lysates  
treated with 1mM pervanadate for 10 minutes

**Lane 2** : Untreated NIH/3T3 whole cell lysates

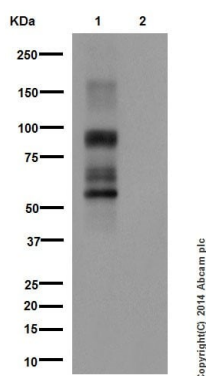
Lysates/proteins at 10 µg per lane.

#### Secondary

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

Multiple bands represent phosph-tyrosine containing proteins  
detected by ab179530.

Blocking/Dilution buffer: 5% NFDM/TBST.



Western blot - Anti-Phosphotyrosine antibody  
[EPR16871] (ab179530)

**All lanes** : Anti-Phosphotyrosine antibody [EPR16871] (ab179530)  
at 1/1000 dilution

**Lane 1** : L6 (Rat skeletal muscle cell line) whole cell lysates treated  
with 1mM pervanadate for 20 minutes

**Lane 2** : Untreated L6 whole cell lysates

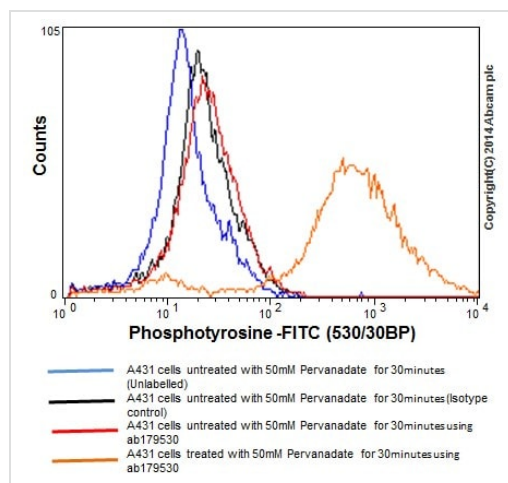
Lysates/proteins at 10 µg per lane.

#### Secondary

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

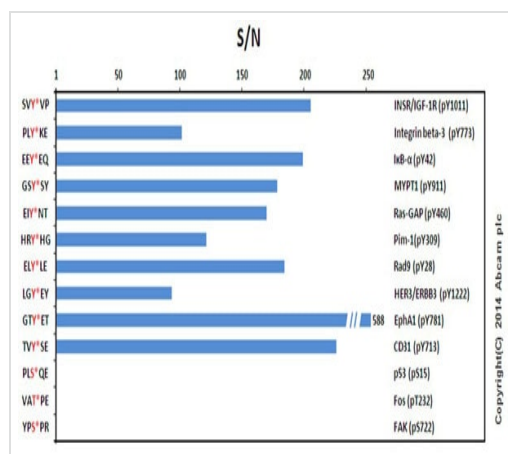
Multiple bands represent phosph-tyrosine containing proteins  
detected by ab179530.

Blocking/Dilution buffer: 5% NFDM/TBST.



Flow Cytometry (Intracellular) - Anti-Phosphotyrosine antibody [EPR16871] (ab179530)

Intracellular flow cytometric analysis of 2% paraformaldehyde-fixed Pervanadate (50mM, 30min.) treated (orange)/untreated (red) A431 (Human epidermoid carcinoma) cells labeling Phosphotyrosine with ab179530 at 1/160 dilution compared with a rabbit monoclonal IgG control (black) and an unlabelled control (cells without incubation with primary antibody and secondary antibody; blue). Goat anti rabbit IgG (FITC) at 1/150 dilution was used as the secondary antibody.



ELISA - Anti-Phosphotyrosine antibody [EPR16871] (ab179530)

ELISA analysis of various antigens (1 µg/ml) using ab179530 at 1/6400 dilution followed by Alkaline Phosphatase-conjugated Goat Anti-Rabbit IgG (H+L) at 1/2500 dilution.

S/N = signal-to-noise ratio of phospho- versus nonphospho-peptides.

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-Phosphotyrosine antibody [EPR16871] (ab179530)

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

### **Our Abpromise to you: Quality guaranteed and expert technical support**

---

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
  
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.cn/abpromise> or contact our technical team.

### **Terms and conditions**

---

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors