

### Anti-Fyn antibody [EPR5500] ab125016

敲除验证 重组 RabMAb

★★★★☆ [2 Abreviews](#) [20 References](#) [6 图像](#)

#### 概述

产品名称	Anti-Fyn抗体[EPR5500]
描述	兔单克隆抗体[EPR5500] to Fyn
宿主	Rabbit
经测试应用	<b>适用于:</b> WB, ICC/IF <b>不适用于:</b> IHC-P
种属反应性	<b>与反应:</b> Mouse, Rat, Human
免疫原	Synthetic peptide within Human Fyn aa 1-100. The exact sequence is proprietary. Database link: <a href="#">P06241</a>
阳性对照	WB: Ramos, Jurkat, HEK-293 and NIH/3T3 cell lysates. Mouse and rat brain tissue lysate. ICC/IF: Neuro-2a cells.
常规说明	This product is a recombinant monoclonal antibody, which offers several advantages including: <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> For more information <a href="#">see here</a> . Our RabMAb <sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a> .

#### 性能

形式	Liquid
存放说明	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
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	EPR5500

同种型

IgG

## 应用

### The Abpromise guarantee

**Abpromise™** 承诺保证使用 ab125016 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	★★★★☆ (2)	1/1000. Detects a band of approximately 60 kDa (predicted molecular weight: 60 kDa).
ICC/IF		1/500.

### 应用说明

Is unsuitable for IHC-P.

## 靶标

### 功能

Tyrosine-protein kinase implicated in the control of cell growth. Plays a role in the regulation of intracellular calcium levels, with isoform 2 showing the greater ability to mobilize cytoplasmic calcium in comparison to isoform 1. Required in brain development and mature brain function with important roles in the regulation of axon growth, axon guidance, and neurite extension. Blocks axon outgrowth and attraction induced by NTN1 by phosphorylating its receptor DDC. Phosphorylates RUNX3.

### 组织特异性

Isoform 1 is highly expressed in the brain. Isoform 2 is expressed in cells of hemopoietic lineages, especially T lymphocytes.

### 序列相似性

Belongs to the protein kinase superfamily. Tyr protein kinase family. SRC subfamily. Contains 1 protein kinase domain. Contains 1 SH2 domain. Contains 1 SH3 domain.

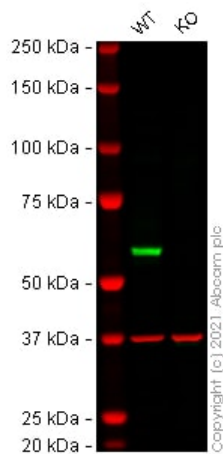
### 细胞定位

Cell membrane. Present and active in lipid rafts. Present in cell body and along the process of mature and developing oligodendrocytes.

### 形式

This protein is known to be similar in amino acid sequence to HCK (P08631), LCK (P06239), YES1 (P07947), SRC (P12931), and LYN (P07948). Therefore, cross-reactivity with these homologous proteins may be observed. We would be happy to provide immunogen alignment information upon request.

## 图片



Western blot - Anti-Fyn antibody [EPR5500]  
(ab125016)

**All lanes** : Anti-Fyn antibody [EPR5500] (ab125016) at 1/1000 dilution

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

**Lane 2** : FYN knockout HEK-293 cell lysate

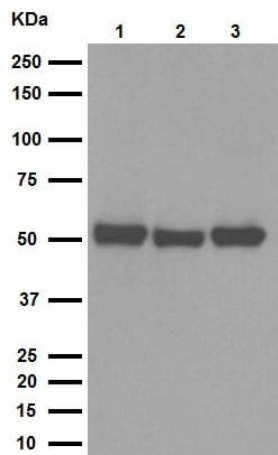
Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

**Predicted band size:** 60 kDa

**Observed band size:** 60 kDa

False colour image of Western blot: Anti-Fyn antibody [EPR5500] staining at 1/1000 dilution, shown in green; Mouse anti-GAPDH antibody [6C5] ([ab8245](#)) loading control staining at 1/20000 dilution, shown in red. In Western blot, ab125016 was shown to bind specifically to Fyn. A band was observed at 60 kDa in wild-type HEK-293 cell lysates with no signal observed at this size in FYN knockout cell line [ab269630](#) (knockout cell lysate [ab272440](#)). To generate this image, wild-type and FYN knockout HEK-293 cell lysates were analysed. First, samples were run on an SDS-PAGE gel then transferred onto a nitrocellulose membrane. Membranes were blocked in 3 % milk in TBS-0.1 % Tween<sup>®</sup> 20 (TBS-T) before incubation with primary antibodies overnight at 4°C. Blots were washed four times in TBS-T, incubated with secondary antibodies for 1 h at room temperature, washed again four times then imaged. Secondary antibodies used were Goat anti-Rabbit IgG H&L (IRDye<sup>®</sup> 800CW) preabsorbed ([ab216773](#)) and Goat anti-Mouse IgG H&L (IRDye<sup>®</sup> 680RD) preabsorbed ([ab216776](#)) at 1/20000 dilution.



Western blot - Anti-Fyn antibody [EPR5500] (ab125016)

**All lanes** : Anti-Fyn antibody [EPR5500] (ab125016) at 1/1000 dilution (purified)

**Lane 1** : Jurkat (Human T cell leukemia cell line from peripheral blood) cell lysate

**Lane 2** : Ramos (Human Burkitt's lymphoma cell line) cell lysate

**Lane 3** : HEK-293 (Human epithelial cell line from embryonic kidney) cell lysate

Lysates/proteins at 20 µg per lane.

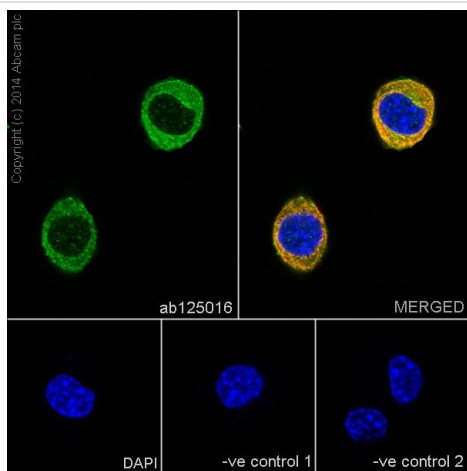
### Secondary

**All lanes** : HRP goat anti-rabbit (H+L) at 1/1000 dilution

**Predicted band size:** 60 kDa

**Observed band size:** 60 kDa

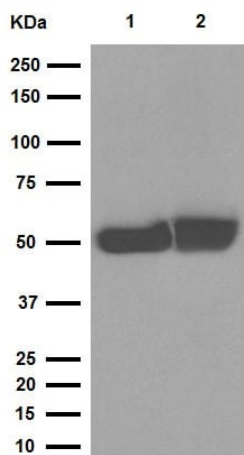
Blocking/Dilution buffer: 5% NFDM/TBST.



Immunocytochemistry/ Immunofluorescence - Anti-Fyn antibody [EPR5500] (ab125016)

Immunofluorescence staining of Neuro-2a (Mouse neuroblastoma cell line) cells with purified ab125016 at a working dilution of 1 in 500, counter-stained with DAPI. The secondary antibody was Alexa Fluor® 488 goat anti rabbit (**ab150077**), used at a dilution of 1 in 500. **ab7291** was used to stain tubulin, and this is shown in the top right hand panel. The cells were fixed in 4% PFA and permeabilized using 0.1% Triton X 100.

The negative control is shown in bottom middle and right hand panels - for the negative controls, purified ab125016 was used at a dilution of 1/200 followed by an Alexa Fluor® 594 goat anti-mouse antibody at a dilution of 1/500.



Western blot - Anti-Fyn antibody [EPR5500] (ab125016)

**All lanes** : Anti-Fyn antibody [EPR5500] (ab125016) at 1/5000 dilution (purified)

**Lane 1** : Mouse brain tissue lysate

**Lane 2** : Rat brain tissue lysate

Lysates/proteins at 20 µg per lane.

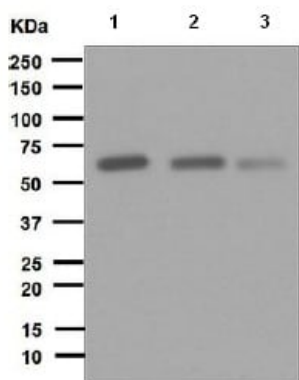
**Secondary**

**All lanes** : HRP goat anti-rabbit (H+L) at 1/1000 dilution

**Predicted band size:** 60 kDa

**Observed band size:** 60 kDa

Blocking/Dilution buffer: 5% NFDm/TBST.



Western blot - Anti-Fyn antibody [EPR5500] (ab125016)

**All lanes** : Anti-Fyn antibody [EPR5500] (ab125016) at 1/1000 dilution (unpurified)

**Lane 1** : Ramos (Human Burkitt's lymphoma cell line) lysate

**Lane 2** : Jurkat (Human T cell leukemia cell line from peripheral blood) lysate

**Lane 3** : NIH/3T3 (Mouse embryo fibroblast cell line) lysate

Lysates/proteins at 10 µg per lane.

**Secondary**

**All lanes** : Goat anti-Rabbit HRP at 1/2000 dilution

**Predicted band size:** 60 kDa

**Observed band size:** 59 kDa

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-Fyn antibody [EPR5500] (ab125016)

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

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