

# Anti-SRC Family (phospho Y418) antibody [EP503Y] ab40660

リコンビナント RabMAb

★★★★☆ **2 Abreviews** **39 References** **画像数 8**

### 製品の概要

製品名	Anti-SRC Family (phospho Y418) antibody [EP503Y]
製品の詳細	Rabbit monoclonal [EP503Y] to SRC Family (phospho Y418)
由来種	Rabbit
特異性	This antibody recognises Lyn phosphorylation on Tyrosine 396. BLAST analysis show 100% homology with Hck (pY410) and Lck (pY393), and 92% homology with Src (pY418), Fyn (pY419) and Yes (pY425). Therefore, the antibody may cross-react with these proteins.
アプリケーション	<b>適用あり:</b> WB, Flow Cyt (Intra), ICC/IF, ELISA
種交差性	<b>交差種:</b> Mouse, Rat, Human
免疫原	Synthetic peptide within Human SRC Family aa 350-450 (phospho Y418). The exact sequence is proprietary. Database link: <b>P07948</b> (Peptide available as <b>ab202645</b> )
ポジティブ・コントロール	WB: HeLa and C6 cell lysates treated with pervanadate. ICC/IF: HeLa cells treated with pervanadate. Flow Cyt (intra): HeLa cells treated with pervanadate.
特記事項	<p>This protein is known to be similar in amino acid sequence to HCK (P08631), LCK (P06239), FYN (P06241), YES1 (P07947), and SRC (P12931). Therefore, cross-reactivity with these homologous proteins may be observed. We would be happy to provide immunogen alignment information upon request.</p> <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 <b>see here</b>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <b>RabMAb<sup>®</sup> patents</b>.</p>

### 製品の特性

製品の状態 Liquid

保存方法	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
バッファー	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 50% Glycerol (glycerin, glycerine), 0.05% BSA, 49% PBS
精製度	Protein A purified
ポリ/モノ	モノクローナル
クローン名	EP503Y
アイソタイプ	IgG

## アプリケーション

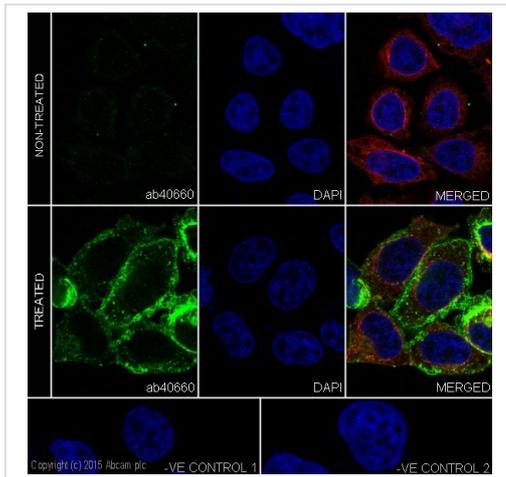
**The Abpromise guarantee**      **Abpromise保証は、次のテスト済みアプリケーションにおけるab40660の使用に適用されます**  
 アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
WB	★★★★★ (2)	1/1000 - 1/10000. Detects a band of approximately 56 kDa (predicted molecular weight: 61 kDa). Induction of cells with Pervanadate: Prepare 500mM stock Sodium Orthovanadate in PBS. To make 100mM (100x) Pervanadate Na3VO4 right before experiment, add 400ul 500mM Sodium Orthovanadate to 1560ul H2O and then 40ul H2O2, vortex and incubate at room RT for 5-10min. Cells are
Flow Cyt (Intra)		1/50. <b>ab172730</b> - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
ICC/IF		Use at an assay dependent concentration.
ELISA		Use at an assay dependent concentration.

## ターゲット情報

関連性	SRC Family Negative Regulatory Phosphorylation Site belongs to the protein kinase superfamily, Tyr protein kinase family, SRC subfamily. It contains one protein kinase domain, one SH2 domain and one SH3 domain. It may serve as part of a signaling pathway coupling the Fc receptor to the activation of the respiratory burst and may also contribute to neutrophil migration and may regulate the degranulation process of neutrophils. SRC Family Negative Regulatory Phosphorylation Site is expressed predominantly in cells of the myeloid and B lymphoid lineages. There are two named isoforms.
細胞内局在	Isoform 1: Membrane; Lipid anchor. Isoform 2: Membrane; Lipid anchor. Cytoplasm.

## 画像

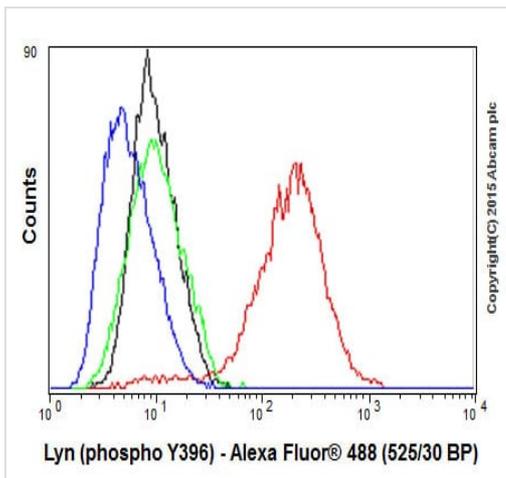


Immunocytochemistry/ Immunofluorescence - Anti-SRC Family (phospho Y418) antibody [EP503Y] (ab40660)

Immunocytochemistry/Immunofluorescence analysis of HeLa cells (untreated and treated with 1mM pervanadate for 15 minutes) labelling SRC Family (phospho Y418) with purified ab40660 at 1/250. Cells were fixed with 4% paraformaldehyde and permeabilized with 0.1% Triton X-100. **ab150077**, an Alexa Fluor<sup>®</sup> 488-conjugated goat anti-rabbit IgG (1/1000) was used as the secondary antibody. DAPI (blue) was used as the nuclear counterstain. **ab7291**, a mouse anti-tubulin (1/1000) and **ab150120**, an Alexa Fluor<sup>®</sup> 594-conjugated goat anti-mouse IgG (1/1000) were also used.

Control 1: primary antibody (1/250) and secondary antibody, **ab150120**, an Alexa Fluor<sup>®</sup> 594-conjugated goat anti-mouse IgG (1/1000).

Control 2: **ab7291** (1/1000) and secondary antibody, **ab150077**, an Alexa Fluor<sup>®</sup> 488-conjugated goat anti-rabbit IgG (1/1000).



Flow Cytometry (Intracellular) - Anti-SRC Family (phospho Y418) antibody [EP503Y] (ab40660)

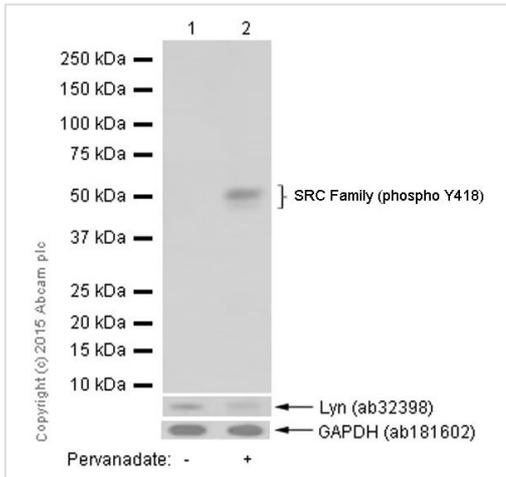
Intracellular Flow Cytometry analysis of HeLa cells (treated with 1mM pervanadate for 30 minutes) labelling SRC Family (phospho Y418) with purified ab40660 at 1/80 (red). Cells were fixed with 4% paraformaldehyde. A FITC-conjugated goat anti-rabbit IgG (1/500) was used as the secondary antibody.

Black - Isotype control, rabbit monoclonal IgG with pervanadate treated HeLa cells.

Blue - Unlabelled control, pervanadate treated HeLa cells without incubation with primary and secondary antibodies.

Red - Pervanadate treated HeLa cells with ab40660.

Green - Untreated HeLa cells labelled with ab40660.



Western blot - Anti-SRC Family (phospho Y418) antibody [EP503Y] (ab40660)

**All lanes** : Anti-SRC Family (phospho Y418) antibody [EP503Y] (ab40660) at 1/2000 dilution (purified)

**Lane 1** : Untreated HeLa whole cell lysate

**Lane 2** : Pervanadate treated HeLa whole cell lysate

Lysates/proteins at 10 µg per lane.

#### Secondary

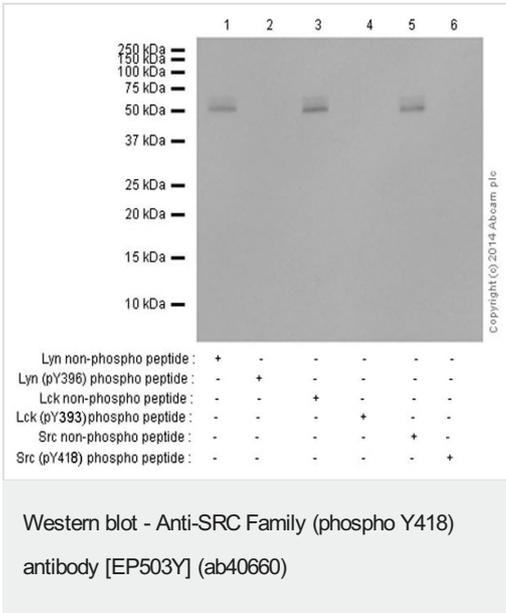
**All lanes** : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

**Predicted band size:** 61 kDa

**Observed band size:** 56-59 kDa

**Exposure time:** 3 seconds

Blocking and dilution buffer: 5% BSA/TBST.



**All lanes :** Anti-SRC Family (phospho Y418) antibody [EP503Y] (ab40660) at 1/1000 dilution (purified)

**Lane 1 :** Pervanadate treated Jurkat cell lysate with Lyn non-phospho peptide

**Lane 2 :** Pervanadate treated Jurkat cell lysate with Lyn (pY396) phospho peptide

**Lane 3 :** Pervanadate treated Jurkat cell lysate with Lck non-phospho peptide

**Lane 4 :** Pervanadate treated Jurkat cell lysate with Lck (pY393) phospho peptide

**Lane 5 :** Pervanadate treated Jurkat cell lysate with Src non-phospho peptide

**Lane 6 :** Pervanadate treated Jurkat cell lysate with Src (pY418) phospho peptide

### Secondary

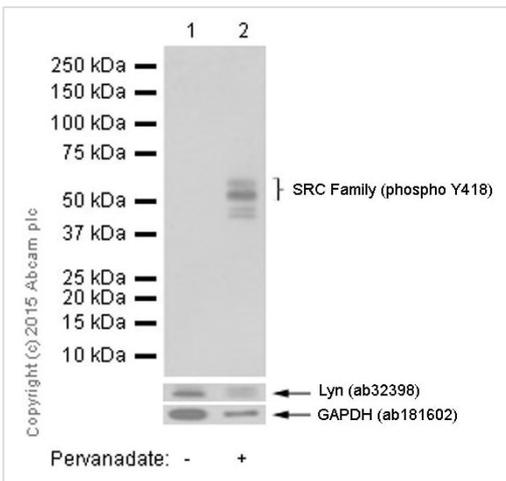
**All lanes :** Peroxidase-conjugated goat anti-rabbit IgG (H+L) at 1/1000 dilution

**Predicted band size:** 61 kDa

**Observed band size:** 56-59 kDa

**Exposure time:** 3 minutes

Blocking and dilution buffer: 5% NFDN/TBST.



**All lanes :** Anti-SRC Family (phospho Y418) antibody [EP503Y] (ab40660) at 1/1000 dilution (purified)

**Lane 1 :** Untreated C6 whole cell lysate

**Lane 2 :** Pervanadate treated C6 whole cell lysate

Lysates/proteins at 10 µg per lane.

### Secondary

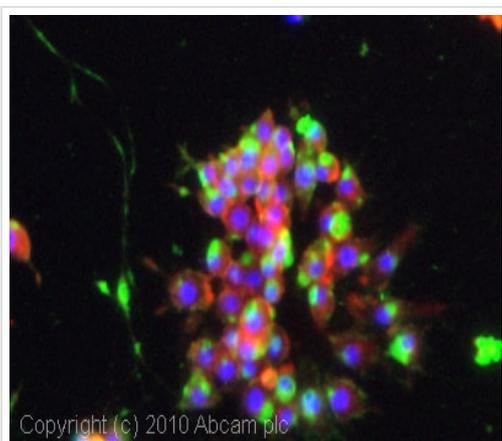
**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

**Predicted band size:** 61 kDa

**Observed band size:** 56-59 kDa

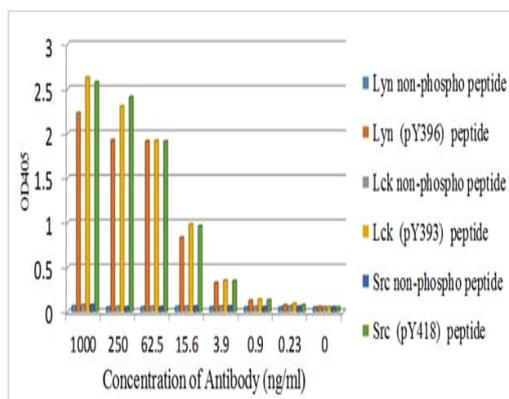
**Exposure time:** 1 second

Blocking and dilution buffer: 5% BSA/TBST.



Immunocytochemistry/ Immunofluorescence - Anti-SRC Family (phospho Y418) antibody [EP503Y] (ab40660)

ICC/IF image of unpurified ab40660 stained PC12 cells. The cells were 4% formaldehyde fixed (10 min) and then incubated in 1% BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab40660, 5µg/ml) overnight at +4°C. The secondary antibody (green) was Alexa Fluor® 488 goat anti-rabbit IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.



ELISA - Anti-SRC Family (phospho Y418) antibody [EP503Y] (ab40660)

Direct ELISA antibody dose-response curve using unpurified ab40660 at 0-1000 ng/ml. Antigen concentration of 1000 ng/mL. An alkaline phosphatase-conjugated goat anti-rabbit IgG (H+L) (1/2500) was used as the secondary antibody.

### 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-SRC Family (phospho Y418) antibody  
[EP503Y] (ab40660)

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