

### Anti-PI 3 Kinase p85 alpha antibody [EPR5513] ab133595

KO 評価済 リコンビナント RabMAb

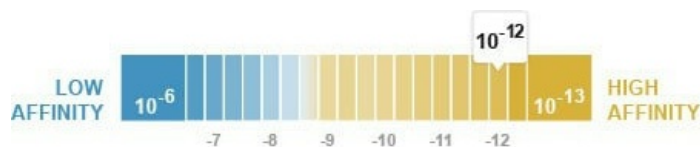
22 References 画像数 5

#### 製品の概要

製品名	Anti-PI 3 Kinase p85 alpha antibody [EPR5513]
製品の詳細	Rabbit monoclonal [EPR5513] to PI 3 Kinase p85 alpha
由来種	Rabbit
アプリケーション	<b>適用あり:</b> WB <b>適用なし:</b> Flow Cyt, ICC/IF, IHC-P or IP
種交差性	<b>交差種:</b> Mouse, Rat, Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
ポジティブ・コントロール	HeLa, Jurkat, Raji, K562, MCF7, C6, Raw 264.7, PC12, NIH3T3 cell lysates
特記事項	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> .

#### 製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
解離定数 (K <sub>D</sub> 値)	K <sub>D</sub> = 5.50 x 10 <sup>-12</sup> M



[Learn more about K<sub>D</sub>](#)

バッファー	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture
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	supernatant
精製度	Protein A purified
ポリモノ	モノクローナル
クローン名	EPR5513
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ab133595の使用に適用されず  
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。

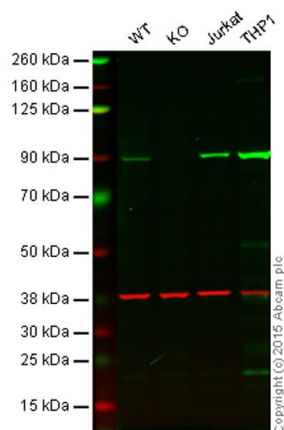
アプリケーション	Abreviews	特記事項
WB		1/1000 - 1/10000. Detects a band of approximately 85 kDa (predicted molecular weight: 83 kDa).

**追加情報** Is unsuitable for Flow Cyt, ICC/IF, IHC-P or IP.

## ターゲット情報

<b>機能</b>	Binds to activated (phosphorylated) protein-Tyr kinases, through its SH2 domain, and acts as an adapter, mediating the association of the p110 catalytic unit to the plasma membrane. Necessary for the insulin-stimulated increase in glucose uptake and glycogen synthesis in insulin-sensitive tissues.
<b>組織特異性</b>	Isoform 2 is expressed in skeletal muscle and brain, and at lower levels in kidney and cardiac muscle. Isoform 2 and isoform 4 are present in skeletal muscle (at protein level).
<b>配列類似性</b>	Belongs to the PI3K p85 subunit family. Contains 1 Rho-GAP domain. Contains 2 SH2 domains. Contains 1 SH3 domain.
<b>ドメイン</b>	The SH3 domain mediates the binding to CBLB, and to HIV-1 Nef.
<b>翻訳後修飾</b>	Polyubiquitinated in T-cells by CBLB; which does not promote proteasomal degradation but impairs association with CD28 and CD3Z upon T-cell activation. Phosphorylated. Dephosphorylated by PTPRJ.

## 画像



Western blot - Anti-PI 3 Kinase p85 alpha antibody [EPR5513] (ab133595)

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

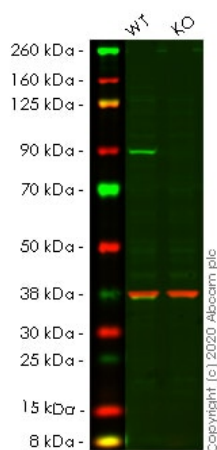
**Lane 2:** PI 3 Kinase p85 alpha knockout HAP1 cell lysate (20 µg)

**Lane 3:** Jurkat cell lysate (20 µg)

**Lane 4:** THP1 cell lysate (20 µg)

**Lanes 1 - 4:** Merged signal (red and green). Green - ab133595 observed at 90 kDa. Red - loading control, **ab8245**, observed at 37 kDa.

ab133595 was shown to specifically react with PI 3 Kinase p85 alpha when PI 3 Kinase p85 alpha knockout samples were used. Wild-type and PI 3 Kinase p85 alpha knockout samples were subjected to SDS-PAGE. ab133595 and **ab8245** (loading control to GAPDH) were diluted 1/1000 and 1/2000 respectively and incubated overnight at 4°C. 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 1/10000 dilution for 1 h at room temperature before imaging.



Western blot - Anti-PI 3 Kinase p85 alpha antibody [EPR5513] (ab133595)

**All lanes :** Anti-PI 3 Kinase p85 alpha antibody [EPR5513] (ab133595) at 1/1000 dilution

**Lane 1 :** Wild-type HeLa cell lysate

**Lane 2 :** PIK3R1 knockout HeLa cell lysate

Lysates/proteins at 20 µg per lane.

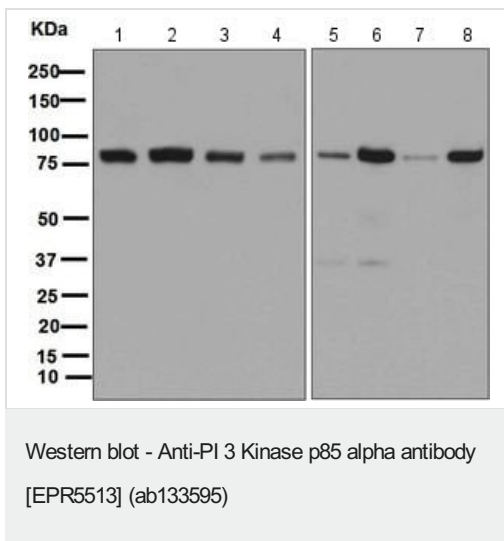
Performed under reducing conditions.

**Predicted band size:** 83 kDa

**Observed band size:** 90 kDa

**Lanes 1- 2:** Merged signal (red and green). Green - ab133595 observed at 90 kDa. Red - Anti-GAPDH antibody [6C5] - Loading Control (**ab8245**) observed at 37 kDa.

ab133595 was shown to react with PI 3 Kinase p85 alpha in wild-type HeLa cells in western blot. Loss of signal was observed when knockout cell line **ab265116** (knockout cell lysate **ab257029**) was used. Wild-type HeLa and PIK3R1 knockout HeLa 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. ab133595 and Anti-GAPDH antibody [6C5] - Loading Control (**ab8245**) 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.



**All lanes** : Anti-PI 3 Kinase p85 alpha antibody [EPR5513] (ab133595) at 1/1000 dilution

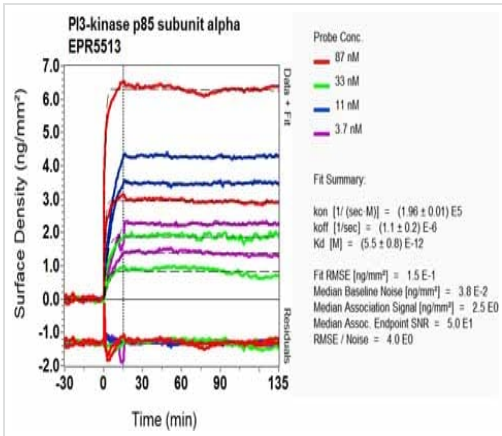
- Lane 1** : Jurkat cell lysate
- Lane 2** : Raji cell lysate
- Lane 3** : K562 cell lysate
- Lane 4** : MCF7 cell lysate
- Lane 5** : C6 cell lysate
- Lane 6** : Raw 264.7 cell lysate
- Lane 7** : PC12 cell lysate
- Lane 8** : NIH3T3 cell lysate

Lysates/proteins at 10 µg per lane.

#### Secondary

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

**Predicted band size:** 83 kDa



SPR Scanning - Anti-PI 3 Kinase p85 alpha antibody [EPR5513] (ab133595)

Equilibrium dissociation constant ( $K_D$ )

Learn more about  $K_D$

[Click here to learn more about  \$K\_D\$](#)

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-PI 3 Kinase p85 alpha antibody [EPR5513] (ab133595)

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

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