

Product datasheet

Anti-Src (phospho Y529) antibody ab47284

1 References 画像数 2

製品の概要

製品名	Anti-Src (phospho Y529) antibody
製品の詳細	Rabbit polyclonal to Src (phospho Y529)
由来種	Rabbit
特異性	This antibody is specific for Src, only when phosphorylated at tyrosine 529.
アプリケーション	適用あり: WB, ELISA, IHC-P
種交差性	交差種: Human 交差が予測される動物種: Mouse, Rat ▲
免疫原	A synthesized phosphopeptide derived from human Src around the phosphorylation site of tyrosine 529 (P-Q-Y _P -Q-P)
ポジティブ・コントロール	Human breast carcinoma tissue; 293 cell extracts

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	Preservative: 0.02% Sodium Azide Constituents: 50% Glycerol, PBS, 150mM Sodium chloride, pH 7.4
精製度	Immunogen affinity purified
特記事項(精製)	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific phosphopeptide. The antibody against non-phosphopeptide was removed by chromatography using non-phosphopeptide corresponding to the phosphorylation site.
ポリ/モノ	ポリクローナル
アイソタイプ	IgG

アプリケーション

Our [Abpromise guarantee](#) covers the use of **ab47284** in the following tested applications.

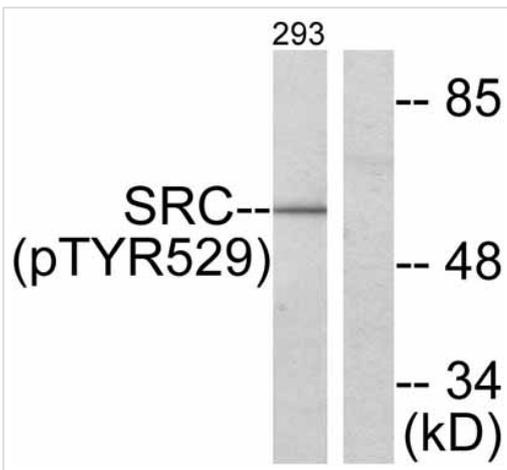
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

アプリケーション	Abreviews	特記事項
WB		1/500 - 1/1000. Detects a band of approximately 60 kDa (predicted molecular weight: 60 kDa).
ELISA		1/10000.
IHC-P		Use at an assay dependent concentration.

ターゲット情報

機能	<p>Non-receptor protein tyrosine kinase that plays pivotal roles in numerous cellular processes such as proliferation, migration, and transformation. In concert with PTK2B, plays an important role in osteoclastic bone resorption. Both the formation of a SRC-PTK2B complex, and SRC kinase activity are necessary for this function. Once it is recruited to the activated integrins, by PTK2B, it phosphorylates CBL which in turn induces the activation and recruitment of phosphatidylinositol 3-kinase to the cell membrane in a signaling pathway that is critical for osteoclast function. Promotes energy production in osteoclasts by activating mitochondrial cytochrome C oxidase. Phosphorylates RUNX3 and COX2 on tyrosine residues, TNK2 on 'Tyr-284' and CBL on 'Tyr-731'. Enhances DDX58/RIG-I-elicited antiviral signaling.</p>
配列類似性	<p>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.</p>
翻訳後修飾	<p>Dephosphorylated at Tyr-530 by PTPRJ (By similarity). Phosphorylated on Tyr-530 by c-Src kinase (CSK). The phosphorylated form is termed pp60c-src. Dephosphorylated by PTPRJ at Tyr-419. Normally maintained in an inactive conformation with the SH2 domain engaged with Tyr-530, the SH3 domain engaged with the SH2-kinase linker, and Tyr-419 dephosphorylated. Dephosphorylation of Tyr-530 as a result of protein tyrosine phosphatase (PTP) action disrupts the intramolecular interaction between the SH2 domain and Tyr-530, Tyr-419 can then become autophosphorylated, resulting in SRC activation. Phosphorylation of Tyr-530 by CSK allows this interaction to reform, resulting in SRC inactivation. S-nitrosylation is important for activation of its kinase activity.</p>
細胞内局在	<p>Cell membrane. Mitochondrion inner membrane.</p>
製品の状態	<p>This protein is known to be similar in amino acid sequence to HCK (P08631), LCK (P06239), FYN (P06241), YES1 (P07947), and LYN (P07948). Therefore, cross-reactivity with these homologous proteins may be observed. We would be happy to provide immunogen alignment information upon request.</p>

画像



Western blot - Src (phospho Y529) antibody (ab47284)

All lanes : Anti-Src (phospho Y529) antibody (ab47284) at 1/500 dilution

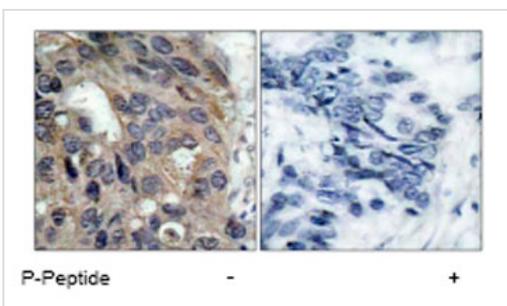
Lane 1 : Extracts from 293 cells treated with EGF and serum

Lane 2 : Extracts from 293 cells untreated

Lysates/proteins at 30 µg per lane.

Predicted band size: 60 kDa

Observed band size: 60 kDa



Immunohistochemistry (Paraffin-embedded sections) - Src (phospho Y529) antibody (ab47284)

Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using ab47284 at a 1/50 dilution.

Left image : Untreated

Right image : Treated with P-Peptide

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