

Recombinant human Src protein ab79635

2 References [画像数 2](#)

製品の詳細

製品名	Recombinant human Src protein
生理活性	Activity: 1007 pmol/min/μg. Assay conditons: 40 mM Tris-HCl pH 7.4, 20 mM MgCl ₂ , 0.1 mg/mL BSA and 1 mM DTT using 0.2 mg/ml Poly(Glu:Tyr) substrate and 20 uM ATP. Reaction was done at 30°C for 35 min.
精製度	> 85 % SDS-PAGE. Affinity purified.
発現系	Baculovirus infected Sf9 cells
アクセッション番号	<u>P12931</u>
タンパク質長	Full length protein
Animal free	No
由来	Recombinant
生物種	Human
配列	

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MHSHHHHGSNKS KPKDASQRRRSLEPAENVHGAGGGAFPASQ
TPSKPASA
DGHGSPSAAFAPAAAEPKLFGGFNSSDTVTSPQRAGPLAGGV
TTFVALYD
YESRTETDLSFKKGERLQIVNNTGDDWLAHSLSTGQTGYIP
SNYVAPSD
SIQAEWYFGKITRRESERLLLNAENPRGTFLVRESETTKGA
YCLSVSDF
DNAKGLNVKHYKIRKLDSSGGFYITSRTQFNSLQQLVAYYSKH
ADGLCHRL
TTVCPTSKPQTQGLAKDAWEIPRESLRLEVKLGQGCDFGEVWM
GTWNGTTR
VAIKTLKPGTMSPEAFMQEAVMKKLRHEKLVQLYAVVSEEP
IYIVTEYM
SKGSLDLFLKGETGKYLRLPQLVDMAAQIASGMAYVERMNYV
HRDLRAAN
ILVGENLVCKVADFLARLIEDNEYTARQGAKFPIKWTAPEA
ALYGRFTI
KSDVWSFGILLTELTTKGRVPYPMVNREVLQDQVERGYRMP
PPECPEL
HDLMCQCWRKEPEERPTFEYLQAFLEDYFTSTEPQYQPGENL

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予測される分子量	61 kDa including tags
領域	2 to 536
タグ	His tag N-Terminus
配列の追加情報	NM_005417 61 KDa including tag

特性

Our **Abpromise guarantee** covers the use of **ab79635** 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	Functional Studies
	SDS-PAGE
	Western blot

製品の状態	Liquid
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前処理および保存

保存方法および安定性	Shipped on Dry Ice. Upon delivery aliquot. Store at -80°C. Avoid freeze / thaw cycle. pH: 8.00 Preservative: 0.851% Imidazole Constituents: 0.04627% (R*,R*)-1,4-Dimercaptobutan-2,3-diol, 0.394% Tris HCl, 50% Glycerol (glycerin, glycerine), 0.403% Sodium chloride, 0.01006% Potassium chloride This product is an active protein and may elicit a biological response in vivo, handle with caution.
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関連情報

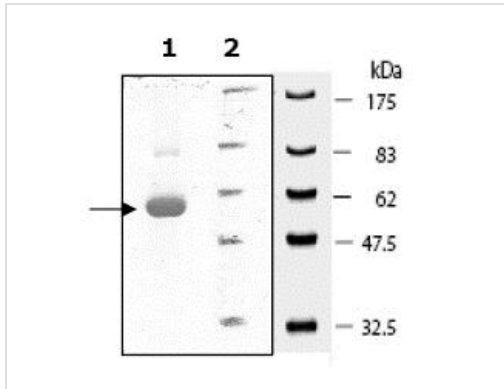
機能	Non-receptor protein tyrosine kinase that plays pivotal roles in numerous cellular processes such as proliferation, migration, and transformation. In concert with PTK2B, plays an important role in osteoclastic bone resorption. Both the formation of a SRC-PTK2B complex, and SRC kinase activity are 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.
配列類似性	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.
翻訳後修飾	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.

細胞内局在

Cell membrane. Mitochondrion inner membrane.

画像



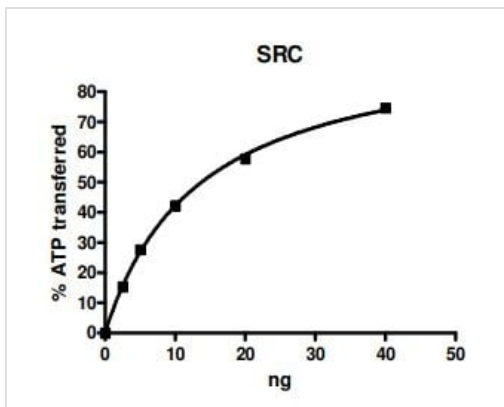
ab79635 on SDS-PAGE, Molecular Weight 60.5 kDa

10% SDS-PAGE, Coomassie staining

Lane 1: ab79635 6 μ g

Lane 2: Protein marker

SDS-PAGE - Recombinant human Src protein
(ab79635)



Kinase assay - Specific activity 1007 pmol/min/ μ g

Functional Studies - Recombinant human Src
protein (ab79635)

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