

Recombinant human ABL2 protein ab51259

画像数 3

製品の詳細

製品名	Recombinant human ABL2 protein
精製度	> 70 % Densitometry. Affinity purified.
発現系	Baculovirus infected Sf9 cells
アクセッション番号	<u>P42684-3</u>
タンパク質長	Protein fragment
Animal free	No
由来	Recombinant
生物種	Human
領域	38 to 1167
タグ	His tag N-Terminus

特性

Our **Abpromise guarantee** covers the use of **ab51259** 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
製品の状態	Liquid
備考	<u>ab204848</u> (c Abl peptide) can be utilized as a substrate for assessing Kinase activity

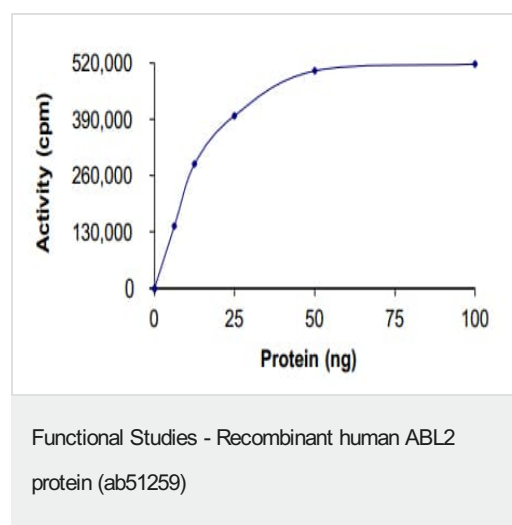
前処理および保存

保存方法および安定性	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles. pH: 7.00 Preservative: 1.02% Imidazole Constituents: 0.00174% PMSF, 0.82% Sodium phosphate, 0.00308% DTT, 25% Glycerol (glycerin, glycerine), 1.74% Sodium chloride This product is an active protein and may elicit a biological response in vivo, handle with caution.
------------	--

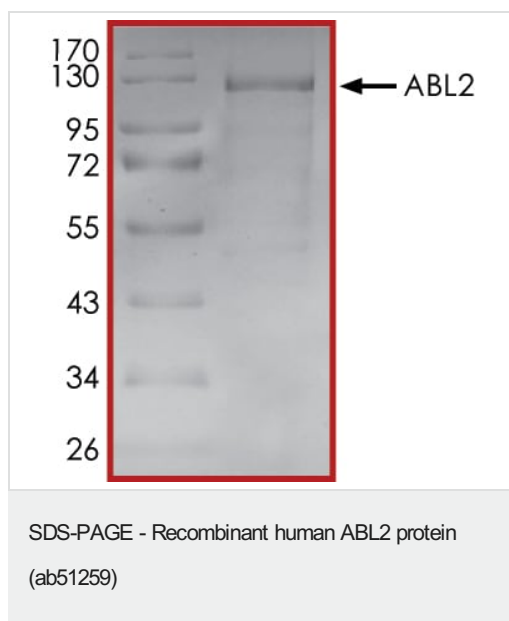
関連情報

機能	<p>Non-receptor tyrosine-protein kinase that plays an ABL1-overlapping role in key processes linked to cell growth and survival such as cytoskeleton remodeling in response to extracellular stimuli, cell motility and adhesion and receptor endocytosis. Coordinates actin remodeling through tyrosine phosphorylation of proteins controlling cytoskeleton dynamics like MYH10 (involved in movement); CTTN (involved in signaling); or TUBA1 and TUBB (microtubule subunits). Binds directly F-actin and regulates actin cytoskeletal structure through its F-actin-bundling activity. Involved in the regulation of cell adhesion and motility through phosphorylation of key regulators of these processes such as CRK, CRKL, DOK1 or ARHGAP35. Adhesion-dependent phosphorylation of ARHGAP35 promotes its association with RASA1, resulting in recruitment of ARHGAP35 to the cell periphery where it inhibits RHO. Phosphorylates multiple receptor tyrosine kinases like PDGFRB and other substrates which are involved in endocytosis regulation such as RIN1. In brain, may regulate neurotransmission by phosphorylating proteins at the synapse. ABL2 acts also as a regulator of multiple pathological signaling cascades during infection. Pathogens can hijack ABL2 kinase signaling to reorganize the host actin cytoskeleton for multiple purposes, like facilitating intracellular movement and host cell exit. Finally, functions as its own regulator through autocatalytic activity as well as through phosphorylation of its inhibitor, ABI1.</p>
組織特異性	Widely expressed.
配列類似性	<p>Belongs to the protein kinase superfamily. Tyr protein kinase family. ABL subfamily.</p> <p>Contains 1 protein kinase domain.</p> <p>Contains 1 SH2 domain.</p> <p>Contains 1 SH3 domain.</p>
ドメイン	Contains two distinct classes of F-actin-binding domains. Although both can bind F-actin, the 2 are required to bundle actin filaments.
翻訳後修飾	<p>Phosphorylated at Tyr-261 by ABL1 in response to oxidative stress. Phosphorylated by PDGFRB.</p> <p>Polyubiquitinated. Polyubiquitination of ABL2 leads to degradation.</p>
細胞内局在	Cytoplasm, cytoskeleton.

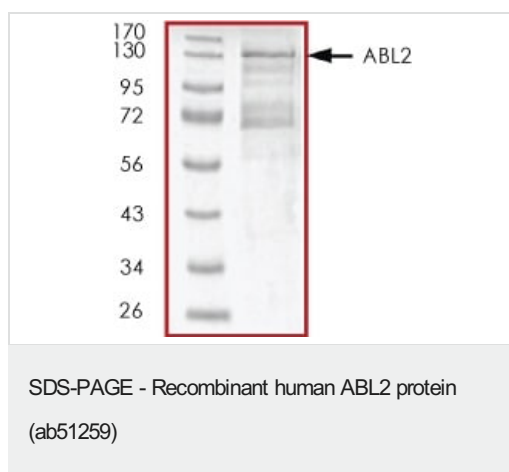
画像



The specific activity of ABL2 (ab51259) was determined to be 1050 nmol/min/mg as per activity assay protocol



SDS PAGE analysis of ab51259



Sample Purity Data.

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

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.co.jp/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors