

Recombinant human LIM Kinase 1 protein ab174066

画像数 2

製品の詳細

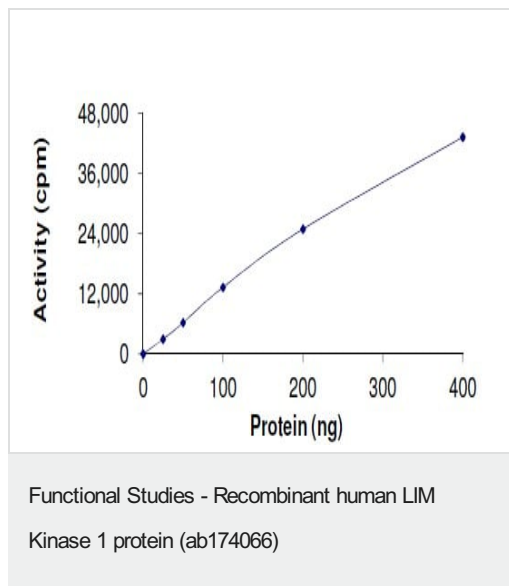
製品名	Recombinant human LIM Kinase 1 protein
生理活性	The specific activity of LIMK1 was determined to be 8 nmol/min/mg.
精製度	> 95 % Densitometry. Affinity purified.
発現系	Baculovirus infected Sf9 cells
アクセッション番号	<u>P53667</u>
タンパク質長	Protein fragment
Animal free	No
由来	Recombinant
生物種	Human
配列	GSSARQKPVLRSCSIDRSPGAGSLGSPASQRKDLGRSESLRV VCRPHRIF RPSDLIHGEVLGKGCFGQAIKVTHRETGEVMVMKELIRFDEE TQRTFLKE VKVMRCLEHPNVLKFIGVLYKDKRLNFITEYIKGGTLRGIK SMDSQYPW SQRVSFAKDIASGMAYLHSMNIIHRDLNSHNCLVRENKNVVV ADFGRLARL MVDEKTQPEGLRSLKKPDRKKRYTVVGPNPYWMAPEMINGRSY DEKVDVFS FGIVLCEIIGRVNADPDYLPRTMDFGLNVRGFLDRYCPNP PSFFPITV RCCDLDPEKRPSFVKLEHWLETLRMHLAGHLPLGPQLEQLDR GFWETYRR GESG
予測される分子量	65 kDa including tags
領域	285 to 638
タグ	proprietary tag N-Terminus

特性

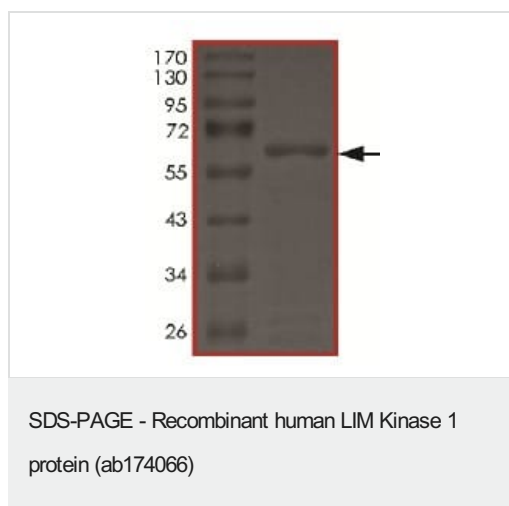
Our **Abpromise guarantee** covers the use of **ab174066** in the following tested applications.

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	<p>SDS-PAGE</p> <p>Western blot</p> <p>Functional Studies</p>
製品の状態	Liquid
備考	ab85154 (Human Cofilin full length protein) and ab64311 (Myelin Basic Protein protein) 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	<p>Shipped on Dry Ice. Upon delivery aliquot. Store at -80°C. Avoid freeze / thaw cycle.</p> <p>pH: 7.50</p> <p>Constituents: 25% Glycerol (glycerin, glycerine), 0.79% Tris HCl, 0.88% Sodium chloride, 0.31% Glutathione, 0.003% EDTA, 0.004% DTT, 0.002% PMSF</p> <p>This product is an active protein and may elicit a biological response in vivo, handle with caution.</p>
関連情報	
機能	Protein kinase which regulates actin filament dynamics. Phosphorylates and inactivates the actin binding/depolymerizing factor cofilin, thereby stabilizing the actin cytoskeleton. Stimulates axonal outgrowth and may be involved in brain development. Isoform 3 has a dominant negative effect on actin cytoskeletal changes.
組織特異性	Highest expression in both adult and fetal nervous system. Detected ubiquitously throughout the different regions of adult brain, with highest levels in the cerebral cortex. Expressed to a lesser extent in heart and skeletal muscle.
関連疾患	Note=LIMK1 is located in the Williams-Beuren syndrome (WBS) critical region. WBS results from a hemizygous deletion of several genes on chromosome 7q11.23, thought to arise as a consequence of unequal crossing over between highly homologous low-copy repeat sequences flanking the deleted region.
配列類似性	<p>Belongs to the protein kinase superfamily. TKL Ser/Thr protein kinase family.</p> <p>Contains 2 LIM zinc-binding domains.</p> <p>Contains 1 PDZ (DHR) domain.</p> <p>Contains 1 protein kinase domain.</p>
翻訳後修飾	<p>Autophosphorylated.</p> <p>Phosphorylated on serine and/or threonine residues by ROCK1. May be dephosphorylated and inactivated by SSH1.</p> <p>Ubiquitinated. 'Lys-48'-linked polyubiquitination by RNF6 leads to proteasomal degradation through the 26S proteasome, modulating LIMK1 levels in the growth cone and its effect on axonal outgrowth. Also polyubiquitinated by RLIM.</p>
細胞内局在	Cytoplasm. Cell projection > growth cone.
画像	



Kinase Assay demonstrating specific activity of ab174066



SDS-PAGE showing ab174066

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