

Recombinant human MSK1 protein ab84805

5 图像

描述

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| 产品名称 | 重组人MSK1蛋白 |
| 生物活性 | The Specific activity of ab84805 was determined to be 89 nmol/min/mg. |
| 纯度 | > 90 % Densitometry. Affinity purified. |
| 表达系统 | Baculovirus infected Sf9 cells |
| 蛋白长度 | Full length protein |
| 无动物成分 | No |
| 性质 | Recombinant |
| 种属 | Human |
| 标签 | GST tag N-Terminus |

技术指标

Our **Abpromise guarantee** covers the use of **ab84805** in the following tested applications.

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

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| 应用 | SDS-PAGE Western blot Functional Studies |
| 形式 | Liquid |
| 补充说明 | ab204879 (RPS6 peptide) can be utilized as a substrate for assessing kinase activity |

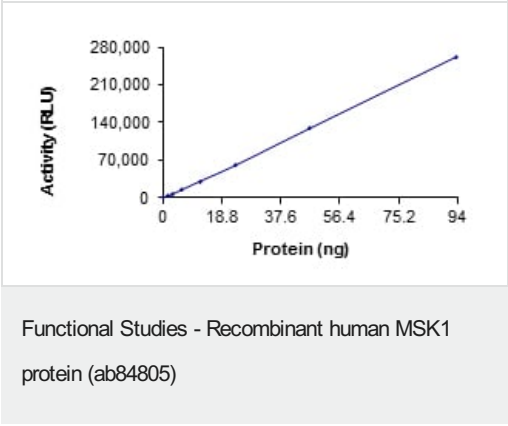
制备和贮存

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| 稳定性和存储 | Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles. pH: 7.50 Constituents: 0.0038% EGTA, 0.00174% PMSF, 0.00385% DTT, 0.79% Tris HCl, 0.00292% EDTA, 25% Glycerol (glycerin, glycerine), 0.87% Sodium chloride This product is an active protein and may elicit a biological response in vivo, handle with caution. |
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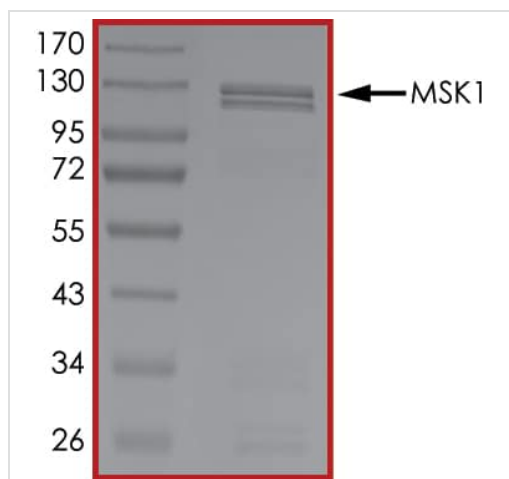
常规信息

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| 功能 | <p>Serine/threonine kinase required for the mitogen or stress-induced phosphorylation of the transcription factors CREB (cAMP response element-binding protein) and ATF1 (activating transcription factor-1). Essential role in the control of RELA transcriptional activity in response to TNF. Directly represses transcription via phosphorylation of 'Ser-1' of histone H2A. Phosphorylates 'Ser-10' of histone H3 in response to mitogenics, stress stimuli and epidermal growth-factor (EGF), which results in the transcriptional activation of several immediate early genes, including proto-oncogenes c-fos/FOS and c-jun/JUN. May also phosphorylate 'Ser-28' of histone H3. Mediates the mitogen- and stress-induced phosphorylation of high mobility group protein 14 (HMG-14).</p> |
| 组织特异性 | <p>Widely expressed with high levels in heart, brain and placenta. Less abundant in lung, kidney and liver.</p> |
| 序列相似性 | <p>Belongs to the protein kinase superfamily. AGC Ser/Thr protein kinase family. S6 kinase subfamily.</p> <p>Contains 1 AGC-kinase C-terminal domain.</p> <p>Contains 2 protein kinase domains.</p> |
| 翻译后修饰 | <p>Ser-376 and Thr-581 phosphorylation is required for kinase activity. Ser-376 and Ser-212 are autophosphorylated by the C-terminal kinase domain, and their phosphorylation is essential for the catalytic activity of the N-terminal kinase domain.</p> |
| 细胞定位 | <p>Nucleus. Cytoplasm. Predominantly nuclear. Partially cytoplasmic.</p> |

图片



The specific activity of MSK1 (ab84805) was determined to be 9.9 nmol/min/mg as per activity assay protocol and was equivalent to 75 nmol/min/mg as per radiometric assay



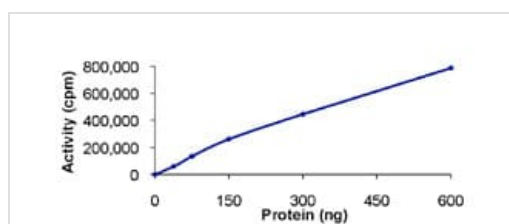
SDS PAGE analysis of ab84805

SDS-PAGE - Recombinant human MSK1 protein
(ab84805)



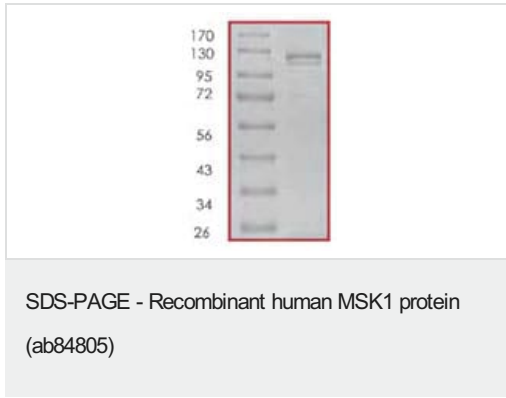
SDS PAGE analysis of ab84805

SDS-PAGE - Recombinant human MSK1 protein
(ab84805)



The Specific activity of ab84805 was determined to be 89 nmol/min/mg.

Functional Studies - Recombinant human MSK1
protein (ab84805)



SDS-PAGE showing ab84805 at approximately 120kDa.

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