

Recombinant mouse PKM2 protein ab95474

2 图像

描述

产品名称	重组小鼠PKM2蛋白
生物活性	Specific Activity: 11 pmol/min/μg. A 50 μl PKM2 reaction is conducted in a buffer containing 50 mM Tris (pH 7.4), 100mM MgCl ₂ , 250 mM KCl, 40 mM ADP, 100 mM phosphoenolpyruvate (PEP) at room temperature for 15 min. ATP production is detected using Kinase-Glo Luminescent Kinase Assay Platform.
纯度	> 90 % SDS-PAGE.
表达系统	Escherichia coli
Accession	P52480-1
蛋白长度	Full length protein
无动物成分	No
性质	Recombinant
种属	Mouse
氨基酸	2 to 531

技术指标

Our **Abpromise guarantee** covers the use of **ab95474** in the following tested applications.

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

应用	Functional Studies SDS-PAGE
形式	Liquid

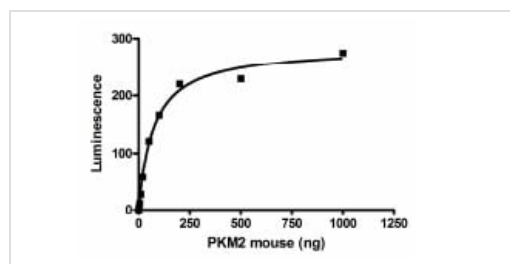
制备和贮存

稳定性和存储	Shipped on Dry Ice. Upon delivery aliquot. Store at -80°C. Avoid freeze / thaw cycle. pH: 8.00 Preservative: 1.36% Imidazole Constituents: 0.0462% (R*,R*)-1,4-Dimercaptobutan-2,3-diol, 0.63% Tris HCl, 20% Glycerol (glycerin, glycerine), 0.642% Sodium chloride, 0.016% Potassium 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

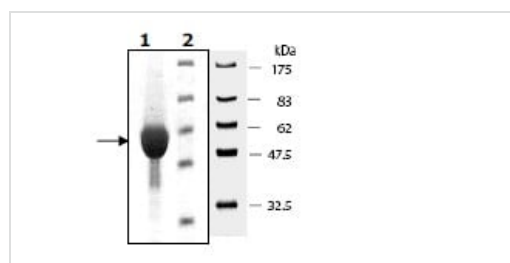
功能	Glycolytic enzyme that catalyzes the transfer of a phosphoryl group from phosphoenolpyruvate (PEP) to ADP, generating ATP. Stimulates POU5F1-mediated transcriptional activation. Plays a general role in caspase independent cell death of tumor cells. The ratio between the highly active tetrameric form and nearly inactive dimeric form determines whether glucose carbons are channeled to biosynthetic processes or used for glycolytic ATP production. The transition between the 2 forms contributes to the control of glycolysis and is important for tumor cell proliferation and survival.
组织特异性	Specifically expressed in proliferating cells, such as embryonic stem cells, embryonic carcinoma cells, as well as cancer cells.
通路	Carbohydrate degradation; glycolysis; pyruvate from D-glyceraldehyde 3-phosphate: step 5/5.
序列相似性	Belongs to the pyruvate kinase family.
翻译后修饰	Phosphorylated upon DNA damage, probably by ATM or ATR. ISGylated.
细胞定位	Cytoplasm. Nucleus. Translocates to the nucleus in response to different apoptotic stimuli. Nuclear translocation is sufficient to induce cell death that is caspase independent, isoform-specific and independent of its enzymatic activity.

图片



Specific activity curve of ab95474

Functional Studies - Recombinant mouse PKM2 protein (ab95474)



10% SDS-PAGE

Lane 1: 10µg ab95474

Lane 2: Molecular Weight markers

SDS-PAGE - Recombinant mouse PKM2 protein (ab95474)

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

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