abcam

Product datasheet

Recombinant Human GAPDH protein ab190398

描述

产品名称	重组人GAPDH蛋白
纯度	> 90 % SDS-PAGE. The final product was refolded using unique “temperature shift inclusion body refolding” technology and chromatographically purified.
表达系统	Escherichia coli
Accession	P04406
蛋白长度	Full length protein
无动物成分	No
性质	Recombinant
种属	Human
序列	MASMTGGQQMGRGHHHHHHENLYFQGGEFGKVKVGVNGFGRI GRLVTRAA FNSGKVDIVAINDPFIDLNYMVYMFQYDSTHGKFHGTVKAEN GKLVINGN PITIFQERDPSKIKWGDAGAEYVVESTGVFTTMEKAGAHLQG GAKRVIIS APSADAPMFVMGVNHEKYDNSLKIISNASCTTNCLAPLAKVI HDNFGIVE GLMTTVHAITATQKTVDGPSGKLWRDGRGALQNIIPASTGAA KAVGKVIP ELNGKLTGMAFRVPTANVSVVDLTCRLEKPAKYDDIKKVVKQ ASEGPLKG ILGYTEHQVVSSDFNSDTHSSTFDAGAGIALNDHFVKLISWY DNEFGYSN RVVDLMAHMASKE
预测分子量	39 kDa including tags
氨基酸	2 to 335
标签	His-T7 tag N-Terminus
额外的序列信息	Constructed with codon optimization and expressed with a small T7-His-TEV cleavage site Tag (29aa) fusion at its N-terminal. NP_002037.

技术指标

Our **Abpromise guarantee** covers the use of **ab190398** in the following tested applications.

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

应用	SDS-PAGE
形式	Liquid

制备和贮存

稳定性和存储	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -80°C. Avoid freeze / thaw cycle. pH: 8.00 Constituent: 0.32% Tris HCl Contains NACl, EDTA, KCl, arginine, DTT and glycerol

常规信息

功能	Has both glyceraldehyde-3-phosphate dehydrogenase and nitrosylase activities, thereby playing a role in glycolysis and nuclear functions, respectively. Participates in nuclear events including transcription, RNA transport, DNA replication and apoptosis. Nuclear functions are probably due to the nitrosylase activity that mediates cysteine S-nitrosylation of nuclear target proteins such as SIRT1, HDAC2 and PRKDC (By similarity). Glyceraldehyde-3-phosphate dehydrogenase is a key enzyme in glycolysis that catalyzes the first step of the pathway by converting D-glyceraldehyde 3-phosphate (G3P) into 3-phospho-D-glyceroyl phosphate.
通路	Carbohydrate degradation; glycolysis; pyruvate from D-glyceraldehyde 3-phosphate: step 1/5.
序列相似性	Belongs to the glyceraldehyde-3-phosphate dehydrogenase family.
翻译后修饰	S-nitrosylation of Cys-152 leads to interaction with SIAH1, followed by translocation to the nucleus. lSGylated.
细胞定位	Cytoplasm > cytosol. Nucleus. Cytoplasm > perinuclear region. Membrane. Translocates to the nucleus following S-nitrosylation and interaction with SIAH1, which contains a nuclear localization signal (By similarity). Postnuclear and Perinuclear regions.

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