

Recombinant human PDE7A/HCP1 protein ab125786

画像数 5

製品の詳細

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|--------------------|---|-------------|----------------------|
| 製品名 | Recombinant human PDE7A/HCP1 protein | | |
| 生理活性 | The specific activity of ab125786 was determined to be 166 nmol/min/mg. | | |
| 精製度 | > 85 % Densitometry. Affinity purified. | | |
| 発現系 | Baculovirus infected Sf9 cells | | |
| アクセッション番号 | <u>Q13946-2</u> | | |
| タンパク質長 | Protein fragment | | |
| Animal free | No | | |
| 由来 | Recombinant | | |
| 生物種 | Human | | |
| 配列 | MSPILGYWKI | KGLVQPTRL | LEYLEEKYEE |
| | HLYERDEGDK | WRNKKFELGL | EFNLPYYID |
| | GDVKLTQSM | IIRYIADKHN | MLGGCPKERA |
| | EISMLEGAVL | DIRYGVSRIA | YSKDFETLKV |
| | DFLSKLP EML | KMFEDRLCHK | TYLNGDHVTH |
| | PDFMLYDALD | VVLYMDPMCL | DAFPKLVCFK |
| | KRIEAI PQID | KYLKSSKYIA | WPLQGQWATF |
| | GGGDHPPKSD | LVPRGSSNSL | NILDDDYNGQ |
| | AKCMLEKVG | WNFDIFLFDR | LTNGNSLVSL |
| | TFHLFSLHGL | IEYFHLDMMK | LRRFLVMIQE |
| | DYHSQNPYHN | AVHAADV TQA | MHCYLKEPKL |
| | ANSVTPWDIL | LSLIAAATHD | LDHPGVNQPF |
| | LIKTNHYLAT | LYKNTSVLEN | HHWRSVGLL |
| | RESGLFSHLP | LESRQQMETQ | IGALILATDI |
| | SRQNEYL SFL | RSHLDRGDLC | LEDTRHRHLV |
| | LQMALKCADI | CNPCRTWELS | KQWSEKVTEE |
| | FFHQGDIEKK | YHLGVSP LCD | RHTESIANIQ |
| | IGFMTYLVEP | LFTEWARFSN | TRLSQTMLGH |
| | VGLNKASWKG | LQREQSSSED | TDAAFELNSQ LLPQENRLS |
| 予測される分子量 | 64 kDa including tags | | |
| 領域 | 104 to 456 | | |
| タグ | GST tag N-Terminus | | |

特性

Our **Abpromise guarantee** covers the use of **ab125786** 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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|----------|---|
| アプリケーション | Functional Studies SDS-PAGE |
| 製品の状態 | Liquid |
| 備考 | This product was previously labelled as PDE7A |

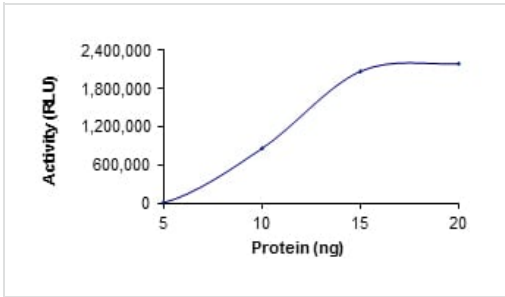
前処理および保存

| | |
|------------|---|
| 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: 7.50 Constituents: 0.002% PMSF, 0.4% DTT, 0.79% Tris HCl, 25% Glycerol (glycerin, glycerine), 0.88% Sodium chloride This product is an active protein and may elicit a biological response in vivo, handle with caution. |
|------------|---|

関連情報

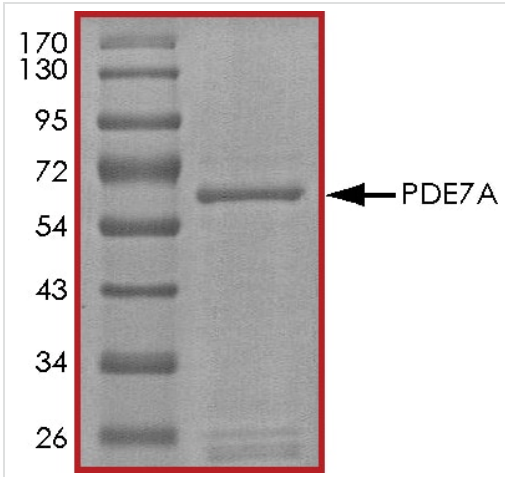
| | |
|-------|---|
| 機能 | Hydrolyzes the second messenger cAMP, which is a key regulator of many important physiological processes. May have a role in muscle signal transduction. |
| 組織特異性 | PDE7A1 is found at high levels in skeletal muscle and at low levels in a variety of tissues including brain and heart. It is expressed as well in two T-cell lines. PDE7A2 is found abundantly in skeletal muscle and at low levels in heart. |
| パスウェイ | Purine metabolism; 3',5'-cyclic AMP degradation; AMP from 3',5'-cyclic AMP: step 1/1. |
| 配列類似性 | Belongs to the cyclic nucleotide phosphodiesterase family. PDE7 subfamily. |
| 発生段階 | Developmentally regulated. PDE7A1 and PDE7A2 are found in several fetal tissues, expression is reduced throughout development. It persists strongly only in adult skeletal muscle. |
| ドメイン | Composed of a C-terminal catalytic domain containing two putative divalent metal sites and an N-terminal regulatory domain. |
| 細胞内局在 | Cytoplasm > cytosol. PDE7A1 (57 kDa) is located mostly to soluble cellular fractions and Cytoplasm. PDE7A2 (50 kDa) is located to particulate cellular fractions. |

画像



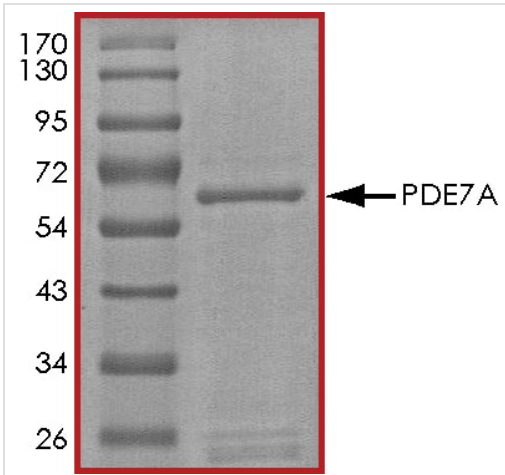
The specific activity of PDE7A/HCP1 (ab125786) was determined to be 160 nmol/min/mg as per activity assay protocol

Functional Studies - Recombinant human PDE7A/HCP1 protein (ab125786)



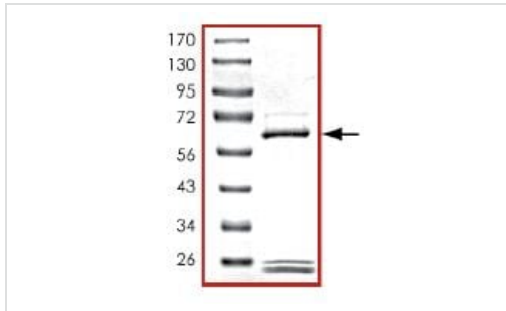
SDS PAGE analysis of ab125786

SDS-PAGE - Recombinant human PDE7A/HCP1 protein (ab125786)



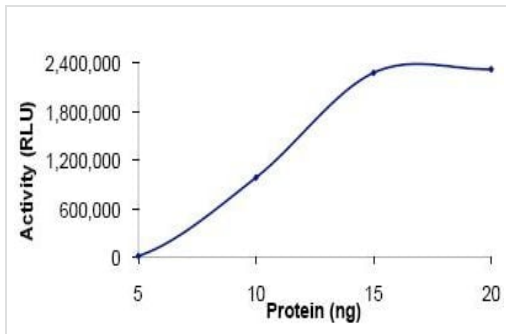
SDS PAGE analysis of ab125786

SDS-PAGE - Recombinant human PDE7A/HCP1 protein (ab125786)



SDS-PAGE analysis of ab125786.

SDS-PAGE - Recombinant human PDE7A/HCP1 protein (ab125786)



Sample assay showing the specific activity of ab125786 to be 166 nmol/min/mg.

Functional Studies - Recombinant human PDE7A/HCP1 protein (ab125786)

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