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Product datasheet

Recombinant Human RPIA/PRI protein ab116207

1 Image

Description

Product name	Recombinant Human RPIA/PRI protein
Purity	> 90 % SDS-PAGE. ab116207 was purified using conventional chromatography techniques.
Expression system	Escherichia coli
Accession	P49247
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MGSSHHHHHHSSGLVPRGSHMQRPGPFSTLYGRVLAPL PGRAGGAASGGG GNSWDLPGSHVRLPGRAQSGTRGGAGNTSTSCGDSNSI CPAPSTMSKAEE AKKLAGRAAVENHVRNNQVLGIGSGSTIVHAVQRIAERVK QENLNLVCIP TSFQARQLILQYGLTLSDLDRHPEIDLAIDGADEVDADLNLI KGGGGCLT QEKIVAGYASRFIVIADFRKDSKNLGDQWHKGIPIEVIPMAY VPVSRAVS QKFGGVVELRMAVNKAGPVVTDNGNFILDWKFDRVHKW SEVNTAIKMIPG VVDTGLFINMAERVYFGMQDGSVNMREKPFC
Predicted molecular weight	35 kDa including tags
Amino acids	1 to 311
Tags	His tag N-Terminus

Specifications

Our **Abpromise guarantee** covers the use of **ab116207** in the following tested applications.

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

Applications	Mass Spectrometry SDS-PAGE

Mass spectrometry	MALDI-TOF
Form	Liquid
Additional notes	This product was previously labelled as RPIA

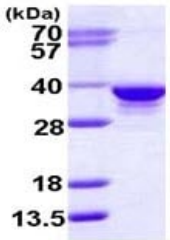
Preparation and Storage

Stability and Storage	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle. pH: 8.00 Constituents: 0.004% PMSF, 0.03% DTT, 0.32% Tris HCl, 0.06% EDTA, 40% Glycerol (glycerin, glycerine), 1.17% Sodium chloride

General Info

Pathway	Carbohydrate degradation; pentose phosphate pathway; D-ribose 5-phosphate from D-ribulose 5-phosphate (non-oxidative stage): step 1/1.
Involvement in disease	Defects in RPIA are the cause of ribose 5-phosphate isomerase deficiency (RPID) [MIM:608611]. A patient has been described with a deficiency of ribose 5-phosphate isomerase who presented with leukoencephalopathy and peripheral neuropathy. Proton magnetic resonance spectroscopy of the brain revealed a highly elevated level of the polyols ribitol and D-arabitol, which were subsequently also found in high concentrations in body fluids. Deficient activity of RPIA, one of the pentose phosphate pathway enzymes, has been demonstrated in fibroblasts.
Sequence similarities	Belongs to the ribose 5-phosphate isomerase family.

Images



SDS-PAGE - Recombinant Human RPIA/PRI protein (ab116207)

15% SDS-PAGE analysis of 3 µg ab116207.

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

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- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit **https://www.abcam.com/abpromise** or contact our technical team.

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