abcam

Product datasheet

Recombinant Human HP1 alpha protein ab124602

1 Image

Description

Product name	Recombinant Human HP1 alpha protein
Purity	> 90 % SDS-PAGE. ab124602 is purified by using conventional chromatography techniques.
Expression system	Escherichia coli
Accession	**P45973**
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	**MGSSHHHHHH SSGLVPRGSH MGSH**MGKKTK RTADSSSSED EEEYVVEKVL DRRVVKGQVE YLLKWKGFSE EHNTWEPEKN LDCPELISEF MKKYKKMKEG ENNKPREKSE SNKRKSNFSN SADDIKSKKK REQSNDIARG FERGLEPEKI IGATDSCGDL MFLMKWKDTD EADLVLAKEA NVKCPQIVIA FYEERLTWHA YPEDAENKEK ETAKS
Predicted molecular weight	25 kDa including tags
Amino acids	1 to 191
Tags	His tag N-Terminus

Specifications

Our **Abpromise guarantee** covers the use of **ab124602** in the following tested applications.

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

Applications	SDS-PAGE Mass Spectrometry
Mass spectrometry	MALDI-TOF
Form	Liquid

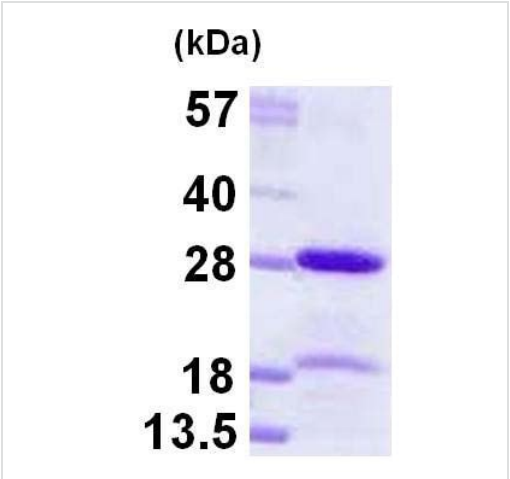
Preparation and Storage

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: 0.02% DTT, 0.32% Tris HCl, 30% Glycerol (glycerin, glycerine), 0.58% Sodium chloride

General Info

Function	Component of heterochromatin that recognizes and binds histone H3 tails methylated at 'Lys-9' (H3K9me), leading to epigenetic repression. In contrast, it is excluded from chromatin when 'Tyr-41' of histone H3 is phosphorylated (H3Y41ph). Can interact with lamin-B receptor (LBR). This interaction can contribute to the association of the heterochromatin with the inner nuclear membrane. Involved in the formation of functional kinetochore through interaction with MIS12 complex proteins.
Sequence similarities	Contains 2 chromo domains.
Post-translational modifications	Phosphorylation of HP1 and LBR may be responsible for some of the alterations in chromatin organization and nuclear structure which occur at various times during the cell cycle (By similarity). Phosphorylated during interphase and possibly hyper-phosphorylated during mitosis. Ubiquitinated.
Cellular localization	Nucleus. Chromosome. Chromosome > centromere. Component of centromeric and pericentromeric heterochromatin. Associates with chromosomes during mitosis. Associates specifically with chromatin during metaphase and anaphase.

Images



SDS-PAGE - Recombinant Human HP1 alpha protein (ab124602)

15% SDS-PAGE showing ab124602 (3 µg).

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- 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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