

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 SSSLVPRGSH MGSHMGKKTK RTADSSSSSED EEEYVVEKVL DRRVVKGQVE YLLKWKGFSE EHNTWEPEKN LDCPELISEF MKKYKKMKEG ENNKPREKSE SNKRKSNFSN SADDIKSKKK REQSNDIARG FERGLEPEKI IGATDSCGDL MFLMKWKD TD EADLVLAKEA NVKCPQVIA 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



15% SDS-PAGE showing ab124602 (3 µg).

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