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Product datasheet

Recombinant Human EYA2 protein ab124581

1 Image

Description

Product name	Recombinant Human EYA2 protein
Purity	> 90 % SDS-PAGE. **ab123581** is purified using conventional chromatography techniques.
Expression system	Escherichia coli
Accession	O00167
Protein length	Protein fragment
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MGSSHHHHHH SSGLVPRGSH MGSMERVFVW DLDETIIIFH SLLTGTFASR YGKDTTTSVR IGLMMEEMIF NLADTHLFFN DLEDCDQIHV DDVSSDDNGQ DLSTYNFSAD GFHSSAPAAN LCLGSGVHGG VDWMRKLAFR YRRVKEMYNT YKNNVGGLIG TPKRETWLQL RAELEALTDL WLTHSLKALN LINSRPNCVN VLVTTTQLIP ALAKVLLYGL GSVFPIENIY SATKTGKESC FERIMQRFGR KAVYVVIGDG VEEEQGAKKH NMPFWRISCH ADLEALRHAL ELEYL
Predicted molecular weight	33 kDa including tags
Amino acids	244 to 514
Tags	His tag N-Terminus

Specifications

Our **Abpromise guarantee** covers the use of **ab124581** 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. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

pH: 8.00
Constituents: 0.02% DTT, 0.32% Tris HCl, 40% Glycerol (glycerin, glycerine), 0.88% Sodium chloride

General Info

Function

Tyrosine phosphatase that specifically dephosphorylates 'Tyr-142' of histone H2AX (H2AXY142ph). 'Tyr-142' phosphorylation of histone H2AX plays a central role in DNA repair and acts as a mark that distinguishes between apoptotic and repair responses to genotoxic stress. Promotes efficient DNA repair by dephosphorylating H2AX, promoting the recruitment of DNA repair complexes containing MDC1. Its function as histone phosphatase probably explains its role in transcription regulation during organogenesis. Coactivates SIX1. Seems to coactivate SIX2, SIX4 and SIX5. Together with SIX1 and DACH2 seem to be involved in myogenesis. May be involved in development of the eye. Interaction with GNAZ and GNAI2 prevents nuclear translocation and transcriptional activity.

Tissue specificity

Highest expression in muscle with lower levels in kidney, placenta, pancreas, brain and heart.

Sequence similarities

Belongs to the HAD-like hydrolase superfamily. EYA family.

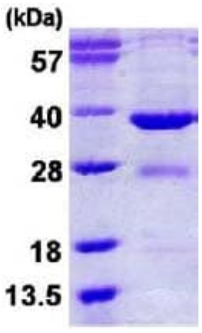
Developmental stage

At the begin of fourth week of development detected in cytoplasm of somite cells. Between the sixth and eighth week of development detected in cytoplasm of limb bud cells.

Cellular localization

Cytoplasm. Nucleus.

Images



SDS-PAGE - Recombinant Human EYA2 protein (ab124581)

15% SDS-PAGE showing ab124581 (3µg).

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- 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

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