

## EYA2 Protein, Human, Recombinant (His &amp; SUMO)

## General Information

Synonyms: EAB1;Protein phosphatase EYA2;Eyes absent homolog 2;EYA2

Protein Construction: 1-514 aa

Species: Human

Expression Host: E. coli

Accession: O00167

Molecular Weight: 72.7 kDa (predicted)

AA Sequence: MVELVISPSLTVNSDCLDKLKFNRADAAVWTLSDRQGITKSAPLRVSQLFSRSCRVLPRQPSTAMAAYGQT  
QYSAGIQQATPYTAYPPPAQAYGIPSFSTSPGQSPYTYQMHGTTGFYQGGNGLGNAAGFGSVHQDYPSYP  
GFPQSQYPQYYGSSYNPPYVPASSICPSPLSTSTYVLQEASHNVPNQSSSLAGEYNTHNGPSTPAKEGDTD  
RPHRASDGKLRGRSKRSDPSPAGDNEIERVFVWDLDETHHIFHSLLTGTFASRYGKDTTTSVRIGLMMEMIFN  
LADTHLFFNDLEDQIHVDDVSSDDNGQDLSTYNFSADGFHSSAPGANLCLGSGVHGGVDWMRKLAFRY  
RRVKEMYNTYKNNVGGIGTPKRETWLQLRAELEALDLWLTHSLKALNLSRPNVCNVLVTTTQLIPALAKV  
LLYGLGVSFPIENIYSATKTGKESCFERIMQRFGRKAVYVIGDGVVEEQGAKKHNMFPWRISCHADLEALRHA  
LELEYL

## QC Testing

Biological Activity: Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.

Purity: > 90% as determined by SDS-PAGE.

Endotoxin: < 1.0 EU/μg of the protein as determined by the LAL method.

Formulation: Tris-based buffer, 50% glycerol

## Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

*Actual storage temperature shall be subject to the COA.*

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

## Protein Background

## A DRUG SCREENING EXPERT

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Functions both as protein phosphatase and as transcriptional coactivator for SIX1, and probably also for SIX2, SIX4 and SIX5. Tyrosine phosphatase that dephosphorylates 'Tyr-142' of histone H2AX (H2AXY142ph) and promotes efficient DNA repair via the recruitment of DNA repair complexes containing MDC1. '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. Its function as histone phosphatase may contribute to its function in transcription regulation during organogenesis. Plays an important role in hypaxial muscle development together with SIX1 and DACH2; in this it is functionally redundant with EYA1.

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