

Recombinant Human EYA2 protein, His-tagged

Cat. No. EYA2-18H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human EYA2(244-514aa) fused with His tag at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	244-514 a.a.
Description	EYA2, also known as eyes absent homolog 2, is a member of tyrosine phosphatase family that specifically dephosphorylates 'Tyr-142' of histone H2AX (H2AXY142ph). This protein 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.
Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 40% glycerol, 0.15M NaCl, 1mM DTT
Molecular Mass	33.2 kDa (295aa), confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SGLVPRGSH MGSMDDVSSDDNGQ DLSTYNFSAD GFHSSAAPAN LCLGSGVHGG VDWMRKLAFR YRRVKEMYNT YKNNVGGLIG TPKRETWLQL RAELEALDRLERVFVW DLDETIIFH SLLTGTFASR YGKDTTTSVR IGLMMEEMIF NLADTHLFFN DLEDQCDQIHV WLTHSLKALN LINSRPNCVN

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VLVTTTQLIP ALAKVLLYGL GSVFPIENIY SATKTGKESC FERIMQRFGR
KAVYVVIGDG VEEEQGAKKH NMPFWRISCH ADLEALRHAL ELEYL

Purity > 90% by SDS - PAGE

Storage Can be stored at +4 centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20 centigrade or -70 centigrade. Avoid repeated freezing and thawing cycles.

Concentration 0.5 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name EYA2 eyes absent homolog 2 (Drosophila) [Homo sapiens]

Official Symbol EYA2

Synonyms EYA2; eyes absent homolog 2 (Drosophila); eyes absent (Drosophila) homolog 2; eyes absent homolog 2; EAB1; MGC10614;

Gene ID 2139

mRNA Refseq NM_005244

Protein Refseq NP_005235

MIM 601654

UniProt ID O00167

Chromosome Location 20q13.1

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Function

hydrolase activity; magnesium ion binding; protein binding; protein tyrosine phosphatase activity;

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