Recombinant human EYA2 protein
Catalog Number: ATGP1478

PRODUCT INFORMATION

Expression system
E.coli

Domain
244-514aa

UniProt No.
O00167

NCBI Accession No.
AAH08803

Alternative Names
Eyes absent homolog 2, EAB1, MGC10614

PRODUCT SPECIFICATION

Molecular Weight
33.2 kDa (295aa) confirmed by MALDI-TOF

Concentration
0.5mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 40% glycerol, 0.15M NaCl, 1mM DTT

Purity
> 85% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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. Recombinant human EYA2 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.
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Amino acid Sequence

MGSSHHHHHH SSGLVPRGSH MGSMERVFVW DLDETIIIFH SLLTGTFASR YGKDTTTSVR IGLMMEEMIF NLADTHLFFN
DLEDCDQIHV DDVSSDDNGQ DLSTYNFSAD GFHSSAPAAN LCLGSGVHGG VDWMRKLAFR YRRVKEMYNT
YKNNVGGLIG TPKRETWLQL RAELEALTDL WLTHSLKALN LINSRPNCVN VLVTTTQLIP ALAKVLLYGL GSVFPIENIY
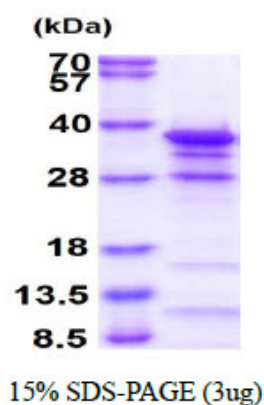SATKTGKESC FERIMQRFGR KAVYVVIGDG VEEEQGAKKH NMPFWRISCH ADLEALRHAL ELEYL

General References

Krishnan N., et al. (2009) J. Biol. Chem. 284:16066-16070
Fan X., et al. (2000) J. Biol. Chem. 275:32129-32134

DATA

SDS-PAGE

15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

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