

Recombinant Human Eyes absent homolog 2(EYA2),partial

Catalog No: #AP70284

Package Size: #AP70284-1 20ug #AP70284-2 100ug #AP70284-3 1mg

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Description

Product Name	Recombinant Human Eyes absent homolog 2(EYA2),partial
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:1-514aaSequence Info:Partial of Isoform 2
Accession No.	O00167
Calculated MW	72.7 kDa
Tag Info	N-terminal 6xHis-SUMO-tagged
Target Sequence	MVELVISPLTVNSDCLDKLFNRADAAVWTLSDRQGITKSAPLRVSQLFSRSCPRVLPQPSTAMAAYGQTQ YSAGIQQATPYTAYPPPAQAYGIPSFSTSPGQSPYTYQMHGTTGFYQGGNGLGNAAGFGSVHQDYPSYPG FPQSQYPQYYGSSYNPPYVPASSICPSPLSTSTYVLQEASHNVPNQSSESLAGEYNTHNGPSTPAKEGDTDR PHRASDGKLRGRSKRSSDPSPAGDNEIERVFVWDLDETIIFHSLLTGTFFASRYGKDTTTSVRIGLMMEEMIFNL ADTHLFFNDLEDQDIHVDDVSSDDNGQDLSTYNFSADGFHSSAPGANLCLGSGVHGGVDWMRKLAFRYRR VKEMYNTYKNNVGGLIGTPKRETWLQLRAELEALTDLWLTHSLKALNLINSRPNCVNVLVTTTQLIPALAKVLLY GLGSVFPIENIYSATKTGKESCFERIMQRFGRKAVYVIGDGVEEEQGAKKHNMPFWRISCHADLEALRHALE LEYL
Formulation	Tris-based buffer50% glycerol
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Background

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.

References

Eyes absent a gene family found in several metazoan phyla.Duncan M.K., Kos L., Jenkins N.A., Gilbert D.J., Copeland N.G., Tomarev S.I.Mamm. Genome 8:479-485(1997)Research Topic:Epigenetics and Nuclear Signaling

Note: This product is for in vitro research use only and is not intended for use in humans or animals.