EYA2 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	EYA2, Monoclonal Antibody
Full Product Name	EYA2 (Eyes Absent Homolog 2, EAB1) (MaxLight 490)
Product Gene Name	anti-EYA2 antibody
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	2F8
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight490.
Purity/Purification	Purified
Specificity	Recognizes human EYA2.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight490 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	50kDa
OMIM	601654
3D Structure	ModBase 3D Structure for O00167
Immunogen	EYA2 (NP_742108, 164-272aa) partial recombinant protein with GST tag. MW of the GST tag alone is 26kD.
Conjugate	MaxLight490
Product Categories/Family for anti-EYA2 antibody	Antibodies; Transcription Factors
Applications Tested/Suitable for anti-EYA2 antibody	FLISA, Immunofluorescence (IF), Western Blot (WB)
Application Notes for anti-EYA2 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-EYA2 antibody	This gene encodes a member of the eyes absent (EYA) family of proteins. The encoded protein may be post-translationally modified and may play a role in eye development. A similar protein in mice can act as a transcriptional activator. Alternative splicing results in multiple transcript variants, but the full-length natures of all of these variants have not yet been determined.
Other Notes	Small volumes of anti-EYA2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for EYA2 purchase	MBS6199062 is an antibody targeting EYA2. Also known as EYA2 (Eyes Absent Homolog 2, EAB1) (MaxLight 490). Reactive in Human. Host: Mouse.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for EYA2. It may not necessarily be applicable to this product.

NCBI GI #	254911007
NCBI GeneID	2139
NCBI Accession #	NP_742108
UniProt Primary Accession #	O00167
UniProt Related Accession #	O00167
GenBank Nucleotide #	NM_172110.3
NCBI Official Full Name	eyes absent homolog 2 isoform c
NCBI Official Synonym Full Names	EYA transcriptional coactivator and phosphatase 2
NCBI Official Symbol	EYA2
NCBI Official Synonym Symbols	EAB1
UniProt Protein Name	Eyes absent homolog 2
Protein Family	Eyes absent
UniProt Gene Name	EYA2
UniProt Synonym Gene Names	EAB1
UniProt Entry Name	EYA2_HUMAN
NCBI Protein Information	eyes absent homolog 2
UniProt Comments for EYA2	EYA2: 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. Belongs to the HAD-like hydrolase superfamily. EYA family. 3 isoforms of the human protein are produced by alternative splicing. Protein type: EC 3.1.3.48; Cell development/differentiation; Protein phosphatase, tyrosine (non-receptor); Apoptosis Chromosomal Location of Human Ortholog: 20q13.1 Cellular Component: centrosome; mitochondrion; cytoplasm; nucleus Molecular Function: protein binding; magnesium ion binding; protein tyrosine phosphatase activity Biological Process: histone dephosphorylation; striated muscle development; regulation of transcription, DNA-dependent; transcription, DNA-dependent; mesodermal cell fate specification; DNA repair
Research Articles on EYA2	**1.** our data indicate that Eya2 may serve as a potential oncoprotein in human astrocytoma. Eya2 regulates astrocytoma cell proliferation and invasion, possibly through the regulation of ERK signaling.
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