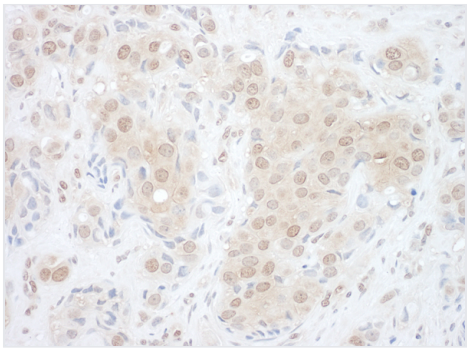
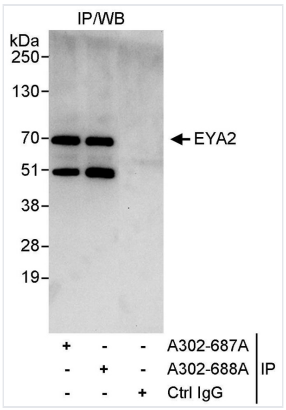
EYA2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	EYA2, Polyclonal Antibody
Full Product Name	Rabbit anti-EYA2 Antibody, Affinity Purified
Product Gene Name	anti-EYA2 antibody
Product Synonym Names	eyes absent homolog 2; EAB1; Eyes absent homolog 2; EYA transcriptional coactivator and phosphatase 2
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid. Whole IgG. Tris-citrate/phosphate buffer, pH 7 to 8 containing 0.09% Sodium Azide
Purity/Purification	Antigen Affinity Purified
Concentration	1000ug/ml (lot specific)
Preparation and Storage	Store at 2-8 degree C Shelf Life: 1 year from date of receipt
Molecular Weight	50,533 Da
OMIM	601654
3D Structure	ModBase 3D Structure for O00167
Immunogen	Between 1 and 50
Conjugation	Unconjugated
Product Categories/Family for anti-EYA2 antibody	Primary Antibodies
Applications Tested/Suitable for anti-EYA2 antibody	Immunoprecipitation (IP), Immunohistochemistry (IHC)
Application Notes for anti-EYA2 antibody	IP: 6ug/mg lysate IHC: 1:500-1:2000. Epitope retrieval with citrate buffer pH 6.0 is recommended for FFPE tissue sections.
Related Product Information for anti-EYA2 antibody	EYA2 (eyes absent homolog 2) functions as a tyrosine phosphatase that specifically dephosphorylates 'Tyr-142' of histone H2AX. EYA2 promotes efficient DNA repair by dephosphorylating H2AX and promoting the recruitment of DNA repair complexes containing MDC1. EYA2 coactivates SIX1. Together with SIX1 and DACH2 EYA2 seems to be involved in myogenesis. EYA2 may be involved in development of the eye [taken from the Universal Protein Resource (UniProt) www.uniprot.org/uniprot/O00167].
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	MBS3903044 is an antibody targeting EYA2. Also known as Rabbit anti-EYA2 Antibody, Affinity Purified. Reactive in Human. Host: Rabbit.



Immunohistochemistry (IHC) of anti-EYA2 antibody
Detection of human EYA2 by immunohistochemistry. Sample: FFPE section of human breast carcinoma. Antibody: Affinity purified rabbit anti-EYA2 (Cat. No. MBS3903044) used at a dilution of 1:1,000 (1ug/ml). Detection: DAB



Immunoprecipitation (IP) of anti-EYA2 antibody
Detection of human EYA2 by western blot of immunoprecipitates. Samples: Whole cell lysate (1 mg for IP, 20% of IP loaded) from HEK293T cells. Antibodies: Affinity purified rabbit anti-EYA2 antibody MBS3903044 used for IP at 3 ug/mg lysate. EYA2 was also immunoprecipitated by rabbit anti-EYA2 antibody MBS3903045, which recognizes a downstream epitope. For blotting immunoprecipitated EYA2, MBS3903045 was used at 1 ug/ml. Detection: Chemiluminescence with an exposure time of 10 seconds.

ADDITIONAL DETAILS

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

NCBI GI #	26667227
NCBI GeneID	2139
NCBI Accession #	NP_005235.3
UniProt Primary Accession #	O00167
UniProt Secondary Accession #	Q5JSW8; Q86U84; Q96CV6; Q96H97; Q99503; Q99812; Q9BWF6; Q9H4S3; Q9H4S9; Q9NPZ4; Q9UIX7
UniProt Related Accession #	O00167
GenBank Nucleotide #	NM_005244.4
NCBI Official Full Name	eyes absent homolog 2 isoform a
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
NCBI Summary for EYA2	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. [provided by RefSeq, Jul 2009]

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.** Decreased expression of EYA2 is associated with pancreatic adenocarcinomas.
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