

#### EYA2 Rabbit mAb

**Catalog # AP76490** 

## **Specification**

### **EYA2** Rabbit mAb - Product Information

Application WB, IP
Primary Accession O00167
Reactivity Human
Host Rabbit

Clonality Monoclonal Antibody

Calculated MW 59232

### EYA2 Rabbit mAb - Additional Information

**Gene ID 2139** 

**Other Names** 

EYA2

**Dilution** 

WB~~1/500-1/1000

 $IP \sim \sim N/A$ 

### **Format**

50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA.

## Storage

Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

# **EYA2** Rabbit mAb - Protein Information

Name EYA2

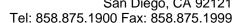
Synonyms EAB1

## **Function**

Functions both as protein phosphatase and as transcriptional coactivator for SIX1, and probably also for SIX2, SIX4 and SIX5 (PubMed:<a href="http://www.uniprot.org/citations/12500905" target="\_blank">12500905</a>, PubMed:<a href="http://www.uniprot.org/citations/23435380" target="\_blank">23435380</a>). 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 (PubMed:<a href="http://www.uniprot.org/citations/19351884" target="blank">19351884</a>). Its function as histone phosphatase may contribute to its

target="\_blank">19351884</a>). 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 (PubMed:<a href="http://www.uniprot.org/citations/12500905" target=" blank">12500905</a>).







# **Cellular Location**

Cytoplasm. Nucleus Note=Retained in the cytoplasm via interaction with GNAZ and GNAI2 (PubMed:10906137). Interaction with SIX1, SIX2, SIX4 or SIX5 is required for translocation to the nucleus (PubMed:10906137, PubMed:12500905).

## **Tissue Location**

Highest expression in muscle with lower levels in kidney, placenta, pancreas, brain and heart

## **EYA2** Rabbit mAb - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

# EYA2 Rabbit mAb - Images

