


Product datasheet

Anti-EYA2 antibody ab95875

3 Images

Overview

<b>Product name</b>	Anti-EYA2 antibody
<b>Description</b>	Rabbit polyclonal to EYA2
<b>Tested applications</b>	<b>Suitable for:</b> WB, IP, IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Horse, Cow, Chimpanzee, Rhesus monkey, Gorilla, Opossum, Orangutan, Bat 
<b>Immunogen</b>	Synthetic peptide corresponding to a region between residue 100 and 150 of human EYA2 (NP_005235.3)
<b>Positive control</b>	293T cells lysate

Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
<b>Storage buffer</b>	Preservative: 0.09% Sodium Azide Constituents: Tris citrate/phosphate, pH 7-8
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab95875** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/2000 - 1/10000. Predicted molecular weight: 59 kDa.
IP		Use at 2-5 µg/mg of lysate.
IHC-P		1/500 - 1/2000. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

## Target

### Function

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.

### Tissue specificity

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

### Sequence similarities

Belongs to the HAD-like hydrolase superfamily. EYA family.

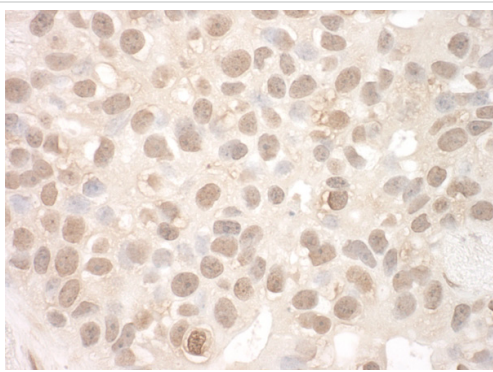
### Developmental stage

At the begin of fourth week of development detected in cytoplasm of somite cells. Between the sixth and eighth week of development detected in cytoplasm of limb bud cells.

### Cellular localization

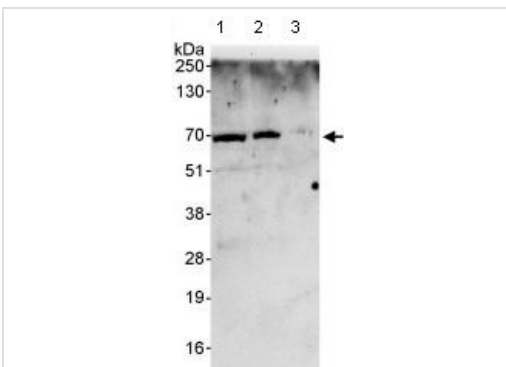
Cytoplasm. Nucleus.

## Anti-EYA2 antibody images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-EYA2 antibody (ab95875)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human breast carcinoma tissue labelling EYA2 with ab95875 at 1/1000 (1µg/ml).  
Detection: DAB.



Western blot - EYA2 antibody (ab95875)

**All lanes :** Anti-EYA2 antibody (ab95875) at 0.2 µg/ml

**Lane 1 :** 293T cell lysate at 50 µg

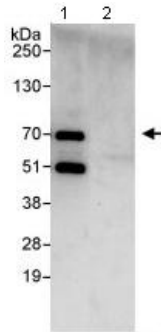
**Lane 2 :** 293T cell lysate at 15 µg

**Lane 3 :** 293T cell lysate at 5 µg

Developed using the ECL technique

**Predicted band size :** 59 kDa

**Exposure time :** 30 seconds



Immunoprecipitation - EYA2 antibody (ab95875)

Detection of human Eya2 by Western Blot of Immunoprecipitate. ab95875 at 0.1  $\mu$ g/ml staining Eya2 in 293T cell lysate immunoprecipitated using ab95875 at 3  $\mu$ g/mg (1mg/IP; 20% of IP loaded/lane) Detection: Chemiluminescence with exposure time of 10 seconds..

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