


## Product datasheet

# Anti-EYA2 antibody ab95875

3 References 3 Images

### Overview

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<b>Product name</b>	Anti-EYA2 antibody
<b>Description</b>	Rabbit polyclonal to EYA2
<b>Host species</b>	Rabbit
<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
<b>General notes</b>	<p>Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.</p> <p>Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.</p> <p>We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications &amp; species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.</p> <p>In preparation for this, we have started to update the applications &amp; species that this product is Abpromise guaranteed for.</p> <p>We are also updating the applications &amp; species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.</p> <p>Applications &amp; species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.</p> <p>Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, as well as customer reviews and Q&amp;As.</p>

### Properties

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<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>	pH: 7 Preservative: 0.09% Sodium azide Constituent: Tris citrate/phosphate
<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.

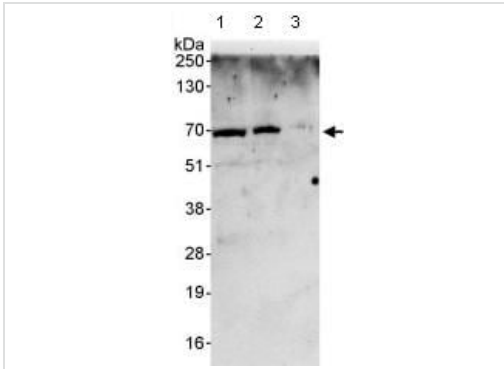
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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

<b>Function</b>	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.
<b>Tissue specificity</b>	Highest expression in muscle with lower levels in kidney, placenta, pancreas, brain and heart.
<b>Sequence similarities</b>	Belongs to the HAD-like hydrolase superfamily. EYA family.
<b>Developmental stage</b>	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.
<b>Cellular localization</b>	Cytoplasm. Nucleus.

## Images



Western blot - Anti-EYA2 antibody (ab95875)

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

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

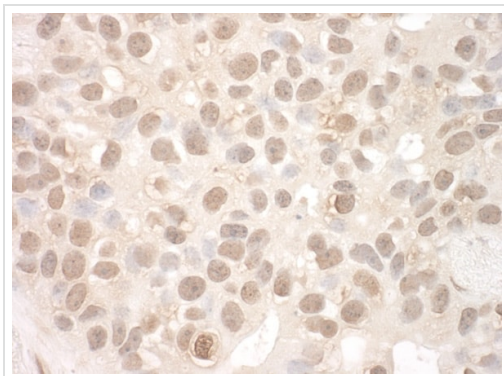
**Lane 2 :** 293T cell lysate at 15 µg

**Lane 3 :** 293T cell lysate at 5 µg

Developed using the ECL technique.

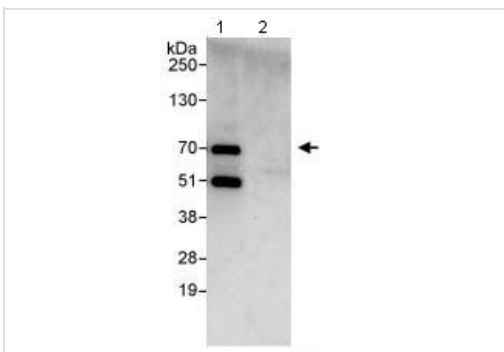
**Predicted band size:** 59 kDa

**Exposure time:** 30 seconds



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.



Immunoprecipitation - Anti-EYA2 antibody (ab95875)

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

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