


Product datasheet

Anti-EYA2 antibody ab95875

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Overview

Product name	Anti-EYA2 antibody
Description	Rabbit polyclonal to EYA2
Host species	Rabbit
Tested applications	Suitable for: WB, IP, IHC-P
Species reactivity	Reacts with: Human Predicted to work with: Horse, Cow, Chimpanzee, Rhesus monkey, Gorilla, Opossum, Orangutan, Bat 
Immunogen	Synthetic peptide corresponding to a region between residue 100 and 150 of human EYA2 (NP_005235.3)
Positive control	293T cells lysate
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>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, along with publications, customer reviews and Q&As</p>

Properties

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

Applications

The Abpromise guarantee

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.

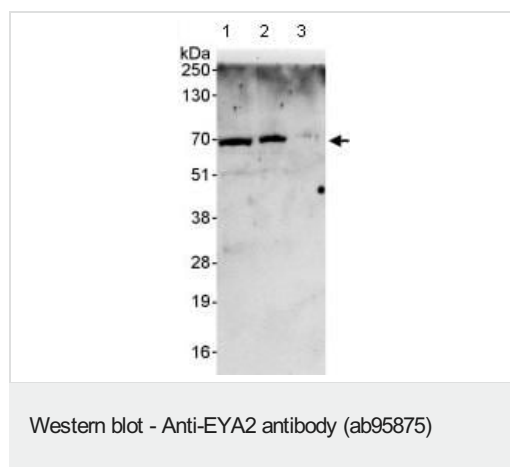
Developmental stage

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.

Images



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

Lane 1 : 293T cell lysate at 50 µg

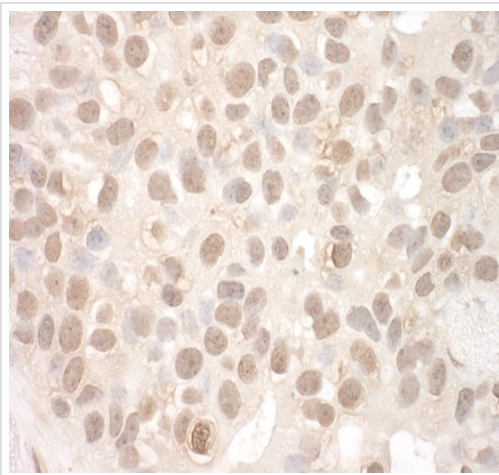
Lane 2 : 293T cell lysate at 15 µg

Lane 3 : 293T cell lysate at 5 µg

Developed using the ECL technique.

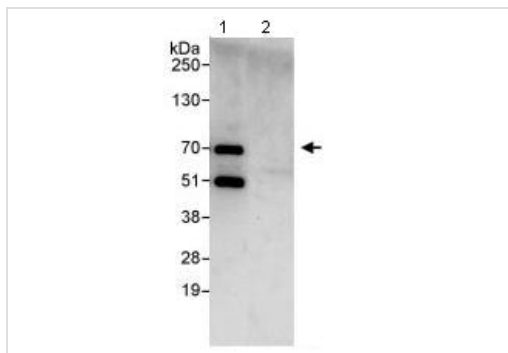
Predicted band size: 59 kDa

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..

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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