

ARG58944 anti-EYA1 antibody

Package: 50 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes EYA1
Tested Reactivity	Hu
Predict Reactivity	Ms, Rat, Cow, Dog, Gpig, Hrs, Rb, Zfsh
Tested Application	IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	EYA1
Species	Human
Immunogen	Synthetic peptide around the middle region of Human EYA1. (within the following region: QDYPSPSFGQGQYQAQYNNSSPYPAHYMTSSNTSPTTPSTNATYQLQEPP)
Conjugation	Un-conjugated
Alternate Names	BOP; BOR; BOS1; EC 3.1.3.16; OFC1; Eyes absent homolog 1; EC 3.1.3.48

Application Instructions

Predict Reactivity Note	Predicted Homology Based On Immunogen Sequence: Cow: 93%; Dog: 100%; Guinea pig: 100%; Horse: 100%; Mouse: 100%; Rabbit: 100%; Rat: 100%; Zebrafish: 86%						
Application table	<table> <tr> <th>Application</th><th>Dilution</th></tr> <tr> <td>IHC-P</td><td>5 µg/ml</td></tr> <tr> <td>WB</td><td>0.2 - 1 µg/ml</td></tr> </table>	Application	Dilution	IHC-P	5 µg/ml	WB	0.2 - 1 µg/ml
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IHC-P	5 µg/ml						
WB	0.2 - 1 µg/ml						
Application Note	<p>IHC-P: Antigen Retrieval: Heat mediated was performed in Citrate buffer (pH 6.0, epitope retrieval solution) for 20 min.</p> <p>* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.</p>						
Positive Control	Human brain						

Properties

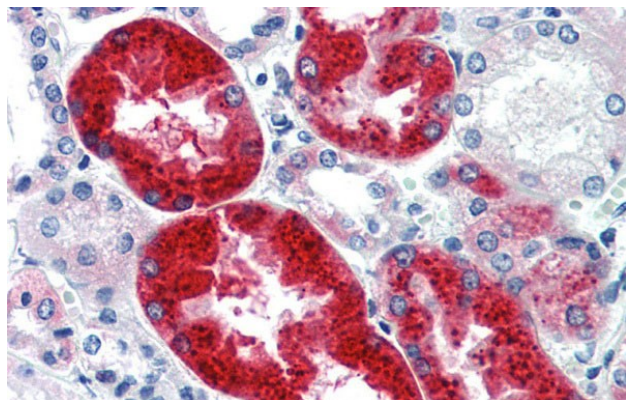
Form	Liquid
Purification	Affinity purified.
Buffer	PBS, 0.09% (w/v) Sodium azide and 2% Sucrose.
Preservative	0.09% (w/v) Sodium azide
Stabilizer	2% Sucrose

Concentration	Batch dependent: 0.5 - 1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

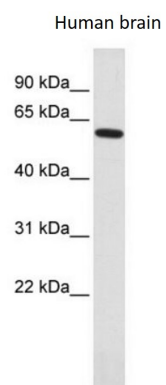
Gene Symbol	EYA1
Gene Full Name	EYA transcriptional coactivator and phosphatase 1
Background	This gene encodes a member of the eyes absent (EYA) family of proteins. The encoded protein may play a role in the developing kidney, branchial arches, eye, and ear. Mutations of this gene have been associated with branchiootorenal dysplasia syndrome, branchiootic syndrome, and sporadic cases of congenital cataracts and ocular anterior segment anomalies. A similar protein in mice can act as a transcriptional activator. Alternatively spliced transcript variants have been identified for this gene. [provided by RefSeq, Dec 2013]
Function	Functions both as protein phosphatase and as transcriptional coactivator for SIX1, and probably also for SIX2, SIX4 and SIX5. Tyrosine phosphatase that dephosphorylates 'Tyr-142' of histone H2AX (H2AX ^{Y142ph}) 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. Its function as histone phosphatase may contribute to its function in transcription regulation during organogenesis. Has also phosphatase activity with proteins phosphorylated on Ser and Thr residues (in vitro). Required for normal embryonic development of the craniofacial and trunk skeleton, kidneys and ears. Together with SIX1, it plays an important role in hypaxial muscle development; in this it is functionally redundant with EYA2. [UniProt]
Calculated Mw	65 kDa
PTM	Sumoylated with SUMO1. [UniProt]
Cellular Localization	Cytoplasm. Nucleus. Note=Localizes at sites of DNA damage at double-strand breaks (DSBs). [UniProt]

Images



ARG58944 anti-EYA1 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human kidney tissue. Antigen Retrieval: Heat mediated was performed in Citrate buffer (pH 6.0, epitope retrieval solution) for 20 min. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG58944 anti-EYA1 antibody at 5 µg/ml, overnight at 4°C.



ARG58944 anti-EYA1 antibody WB image

Western blot: Human brain lysate stained with ARG58944 anti-EYA1 antibody at 0.2 - 1 μ g/ml dilution.