



[Go to Product page](#)

Datasheet for ABIN7152358  
**anti-EYA1 antibody (AA 168-321) (HRP)**

### Overview

Quantity:	100 µg
Target:	EYA1
Binding Specificity:	AA 168-321
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This EYA1 antibody is conjugated to HRP
Application:	ELISA

### Product Details

Immunogen:	Recombinant Human Eyes absent homolog 1 protein (168-321AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	>95%, Protein G purified

### Target Details

Target:	EYA1
Alternative Name:	EYA1 ( <a href="#">EYA1 Products</a> )
Background:	Background: Functions both as protein phosphatase and as transcriptional coactivator for SIX1, and probably also for SIX2, SIX4 and SIX5 (By similarity). Tyrosine phosphatase that

## Target Details

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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:19234442). Its function as histone phosphatase may contribute to its function in transcription regulation during organogenesis (By similarity). Has also phosphatase activity with proteins phosphorylated on Ser and Thr residues (in vitro) (By similarity). Required for normal embryonic development of the craniofacial and trunk skeleton, kidneys and ears (By similarity). Together with SIX1, it plays an important role in hypaxial muscle development, in this it is functionally redundant with EYA2 (By similarity).

Aliases: BOP antibody, BOR antibody, BOS1 antibody, EYA transcriptional coactivator and phosphatase 1 antibody, Eya1 antibody, EYA1\_HUMAN antibody, Eyes absent 1 antibody, Eyes absent 1 homolog antibody, Eyes absent homolog 1 (Drosophila) antibody, Eyes absent homolog 1 antibody, Eyes absent homolog1 antibody, MGC141875 antibody, OFC1 antibody

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UniProt: [Q99502](#)

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Pathways: [Sensory Perception of Sound](#), [Positive Regulation of Response to DNA Damage Stimulus](#)

## Application Details

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Application Notes: Optimal working dilution should be determined by the investigator.

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Restrictions: For Research Use only

## Handling

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Format: Liquid

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Buffer: Preservative: 0.03 % Proclin 300  
Constituents: 50 % Glycerol, 0.01M PBS, pH 7.4

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Preservative: ProClin

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Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

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Storage: -20 °C,-80 °C

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Storage Comment: Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.