

**Eya1 antibody - middle region**  
**Rabbit Polyclonal Antibody**  
**Catalog # AI10361****Specification**

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**Eya1 antibody - middle region - Product Information**

Application	WB
Primary Accession	<a href="#">P97767</a>
Other Accession	<a href="#">NM_010164</a> , <a href="#">NP_034294</a>
Reactivity	Human, Mouse, Rat, Zebrafish, Pig, Horse, Bovine, Dog
Predicted	Human, Mouse, Rat, Zebrafish, Pig, Bovine, Guinea Pig, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	64kDa KDa

**Eya1 antibody - middle region - Additional Information****Gene ID** 14048

Alias Symbol	bor
<b>Other Names</b>	
Eyes absent homolog 1, 3.1.3.16, 3.1.3.48, Eya1	

**Format**

Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

**Reconstitution & Storage**

Add 50 ul of distilled water. Final anti-Eya1 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

**Precautions**

Eya1 antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures.

**Eya1 antibody - middle region - Protein Information****Name** Eya1**Function**

Functions both as protein phosphatase and as transcriptional coactivator for SIX1, and probably also for SIX2, SIX4 and SIX5 (PubMed:<a href="http://www.uniprot.org/citations/10490620" target="\_blank">10490620</a>). Tyrosine phosphatase that 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:<a href="http://www.uniprot.org/citations/19234442">

target="\_blank">19234442</a>). Its function as histone phosphatase may contribute to its function in transcription regulation during organogenesis (PubMed:<a href="http://www.uniprot.org/citations/14628042" target="\_blank">14628042</a>). 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 (PubMed:<a href="http://www.uniprot.org/citations/10471511" target="\_blank">10471511</a>). Together with SIX1, it plays an important role in hypaxial muscle development; in this it is functionally redundant with EYA2 (PubMed:<a href="http://www.uniprot.org/citations/17098221" target="\_blank">17098221</a>).

#### Cellular Location

Cytoplasm. Nucleus Note=Localizes at sites of DNA damage at double-strand breaks (DSBs) {ECO:0000250|UniProtKB:Q99502}

#### Tissue Location

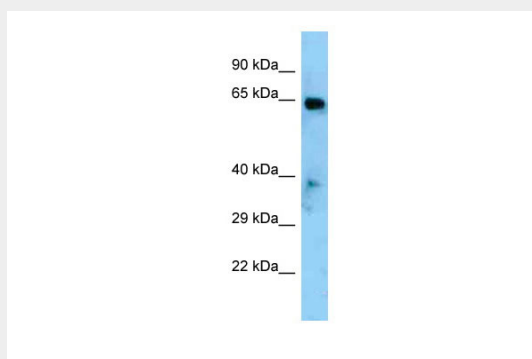
Extensively expressed in cranial placodes, branchial arches, CNS and developing eye and nose

### Eya1 antibody - middle region - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### Eya1 antibody - middle region - Images



#### WB Suggested Anti-Eya1 Antibody

**Titration: 1. µg/ml**

Positive Control: Mouse Heart