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Eya1 antibody - middle region
Rabbit Polyclonal Antibody
Catalog # AI10361

Specification

Eya1 antibody - middle region - Product Information

Application	**WB**
Primary Accession	P97767
Other Accession	NM_010164, NP_034294
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**

Other Names
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:10490620). 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). Its function as histone phosphatase may contribute to its function in transcription regulation during organogenesis (PubMed:14628042). 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:10471511). Together with SIX1, it plays an important role in hypaxial muscle development; in this it is functionally redundant with EYA2 (PubMed:17098221).

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

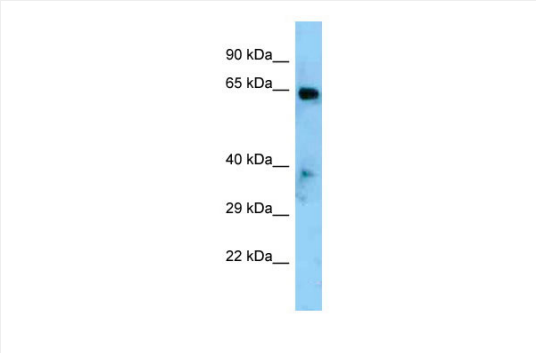
Tissue Location
Extensively expressed in cranial placodes, branchial arches, CNS and developing eye and nose

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 Cytomety
- Cell Culture

Eya1 antibody - middle region - Images



WB Suggested Anti-Eya1 Antibody
Titration: 1. µg/ml
Positive Control: Mouse Heart