

**EYA4 Antibody (C-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP9330b****Specification**

---

**EYA4 Antibody (C-term) - Product Information**

Application	WB, IHC-P, FC,E
Primary Accession	<a href="#">O95677</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	69505
Antigen Region	1-30

**EYA4 Antibody (C-term) - Additional Information****Gene ID** 2070**Other Names**

Eyes absent homolog 4, EYA4

**Target/Specificity**

This EYA4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the C-terminal region of human EYA4.

**Dilution**

WB~~1:1000  
IHC-P~~1:50~100  
FC~~1:10~50

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

EYA4 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**EYA4 Antibody (C-term) - Protein Information****Name** EYA4**Function** Tyrosine phosphatase that specifically dephosphorylates 'Tyr- 142' of histone H2AX

(H2AX<sup>Y142ph</sup>). '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. May be involved in development of the eye (By similarity).

**Cellular Location**

Cytoplasm {ECO:0000250|UniProtKB:Q99502}. Nucleus {ECO:0000250|UniProtKB:Q99502}

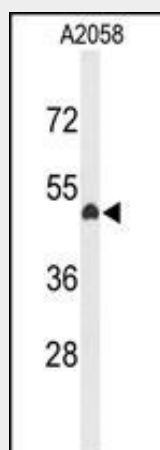
**Tissue Location**

Highly expressed in heart and skeletal muscle.

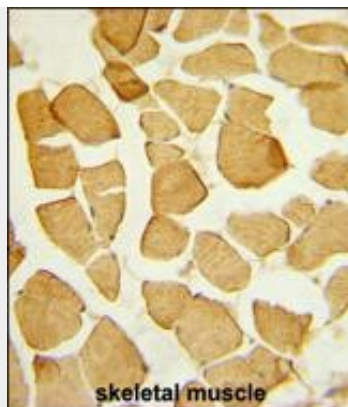
**EYA4 Antibody (C-term) - Protocols**

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

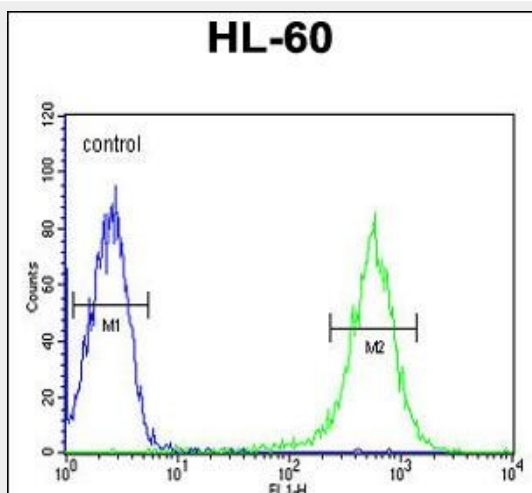
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**EYA4 Antibody (C-term) - Images**

Western blot analysis of EYA4 Antibody (C-term) (Cat. #AP9330b) in A2058 cell line lysates (35ug/lane). EYA4 (arrow) was detected using the purified Pab.



Formalin-fixed and paraffin-embedded human skeletal muscle reacted with EYA4 Antibody (C-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



EYA4 Antibody (C-term) (Cat. #AP9330b) flow cytometry analysis of HL-60 cells (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

#### **EYA4 Antibody (C-term) - Background**

EYA4 encodes a member of the eyes absent (EYA) family of proteins. The encoded protein may act as a transcriptional activator through its protein phosphatase activity, and it may be important for eye development, and for continued function of the mature organ of Corti.

#### **EYA4 Antibody (C-term) - References**

- Miller, S.J. Oncogene 29 (3), 368-379 (2010)
- Li, H. J. Exp. Clin. Cancer Res. 28, 145 (2009)
- Melzer, D. PLoS Genet. 4 (5), E1000072 (2008)