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EYA4 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP9330b

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	O95677
Reactivity	Human
Predicted	Mouse, Rat, Bovine, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB23878
Calculated MW	69505
Antigen Region	1-30

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~~1:100~500 FC~~1:10~50 E~~Use at an assay dependent concentration.
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.

Protein Information

Name	EYA4
Function	Tyrosine phosphatase that specifically dephosphorylates 'Tyr- 142' of histone H2AX (H2AXY142ph). '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.

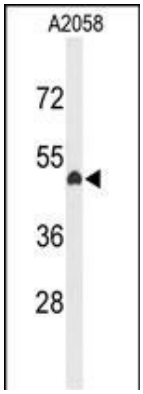
Background

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.

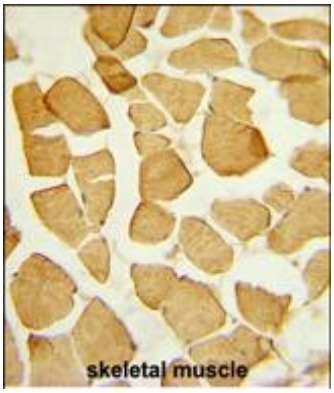
References

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)

Images

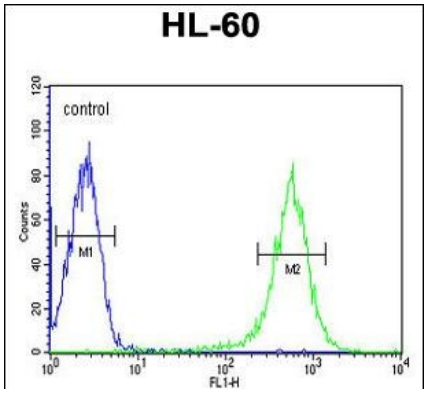


Western blot analysis of EYA4 Antibody (C-term) (Cat. #AP9330b) in A2058 cell line lysates (35ug/lane). EYA4 (arrow) was detected using the purified Pab.



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.



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.