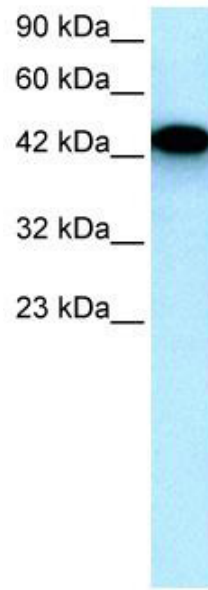


Polyclonal Antibody to EYA3 - Aff - Purified

Alternate names:	Eyes absent homolog 3
Catalog No.:	TA330254
Quantity:	50 µg
Background:	EYA3 is a 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. This protein 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. EYA3 coactivates SIX1, and seems to coactivate SIX2, SIX4 and SIX5. The repression of precursor cell proliferation in myoblasts by SIX1 is switched to activation through recruitment of EYA3 to the SIX1-DACH1 complex and seems to be dependent on EYA3 phosphatase activity.
Uniprot ID:	Q99504
NCBI:	NP_001981
GeneID:	2140
Host:	Rabbit
Immunogen:	The immunogen for anti-EYA3 antibody: synthetic peptide directed towards the middle region of human EYA3. AA Sequence: QSRKNMTSKNRGKRKADATSSQDSELERVFLWDLDETI I I FHSLLTGSYA
Format:	State: Lyophilized from PBS Purification: Purified using peptide immunoaffinity column Reconstitution: Add 50 µl of distilled water to a final concentration of 1 mg/ml.
Applications:	Western blotting (0.05 - 0.5 µg/ml) Immunohistochemistry on paraffin embedded sections (2 - 8 µg/ml) Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Species Reactivity:	Tested: Human Expected from sequence similarity: Mouse, Rat, Dog
Storage:	Store lyophilized at 2-8°C or at -20°C long term. After reconstitution store the antibody undiluted at 2-8°C for up to one month or in aliquots at -20°C long term. Avoid repeated freezing and thawing. Shelf life: one year from dispatch.
General Readings:	Borsani,G., et al., (1999) Hum.Mol.Genet.8(1),38679

Pictures:

WB Suggested Anti-EYA3 Antibody
Titration: 0.05-1.0ug/ml; Positive
Control: HepG2 cell lysate



Human Skeletal Muscle

