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Mouse Hoxa1 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP14464c

Product Information

Application	WB, E
Primary Accession	P09022
Other Accession	O08656, P49639
Reactivity	Human, Rat, Mouse
Predicted	Rat, Bovine, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB35131
Calculated MW	36037
Antigen Region	191-219

Additional Information

Other Names	Homeobox protein Hox-A1, Early retinoic acid 1, Homeobox protein Hox-16, Homeoboxless protein ERA-1-399, Homeotic protein ERA-1-993, Hoxa1, Era-1, Hox-16, Hoxa-1
Target/Specificity	This Mouse Hoxa1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 191-219 amino acids from the Central region of mouse Hoxa1.
Dilution	WB~~1:1000 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	Mouse Hoxa1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	Hoxa1
Synonyms	Era-1, Hox-1.6, Hoxa-1
Function	Sequence-specific transcription factor (PubMed: 29465778). Regulates

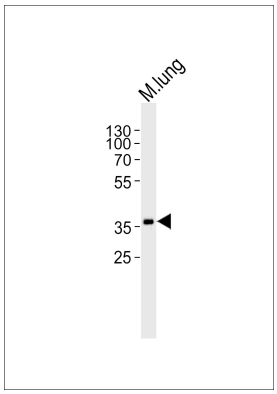
multiple developmental processes including brainstem, inner and outer ear, abducens nerve and cardiovascular development and morphogenesis as well as cognition and behavior (By similarity). Also part of a developmental regulatory system that provides cells with specific positional identities on the anterior-posterior axis. Acts on the anterior body structures. Seems to act in the maintenance and/or generation of hindbrain segments (By similarity). Activates transcription in the presence of PBX1A and PKNOX1 (PubMed:29465778). The homeoboxless ERA-1-399 protein could act as a competitive inhibitor of the ERA-1-993 protein by competing for interaction with regulatory protein(s) while being unable to bind to DNA.

Cellular Location Nucleus.

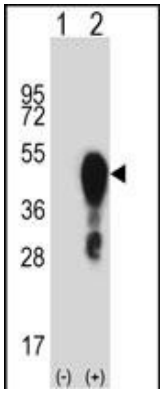
Background

Sequence-specific transcription factor which is part of a developmental regulatory system that provides cells with specific positional identities on the anterior-posterior axis. Acts on the anterior body structures. Seems to act in the maintenance and/or generation of hindbrain segments. The homeobox domain presumably directs sequence-specific DNA binding. The N-terminal portion of ERA-1-993 may be involved in interactions with one or more other regulatory proteins. Such an interaction could regulate either the DNA-binding activity or the transcriptional regulatory activity of ERA-1-993. The homeoboxless ERA-1-399 protein could act as a competitive inhibitor of the ERA-1-993 protein by competing for interaction with regulatory protein(s) while being unable to bind to DNA.

Images

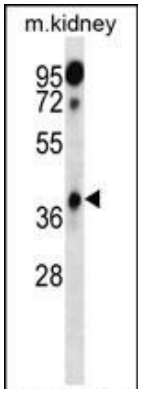


Western blot analysis of lysate from mouse lung tissue lysate, using Mouse Hoxa1 Antibody (Center)(Cat. #AP14464c). AP14464c was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysate at 35ug.



Western blot analysis of Hoxa1 (arrow) using rabbit polyclonal Mouse Hoxa1 Antibody (Center) (Cat. #AP14464c). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the Hoxa1 gene.

Mouse Hoxa1 Antibody (Center) (Cat. #AP14464c) western blot analysis in mouse kidney tissue lysates (35ug/lane).This demonstrates the Hoxa1 antibody detected the Hoxa1 protein (arrow).



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