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Mouse Hoxa1 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP14464c

Specification

Mouse Hoxa1 Antibody (Center) - Product Information

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

Mouse Hoxa1 Antibody (Center) - 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

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.

Mouse Hoxa1 Antibody (Center) - 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.

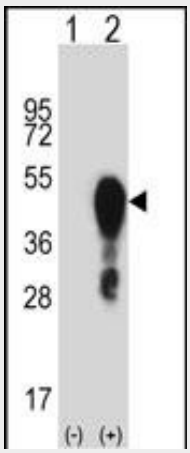
Cellular Location
Nucleus.

Mouse Hoxa1 Antibody (Center) - 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

Mouse Hoxa1 Antibody (Center) - Images



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.

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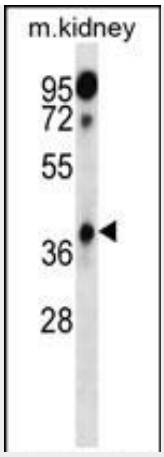
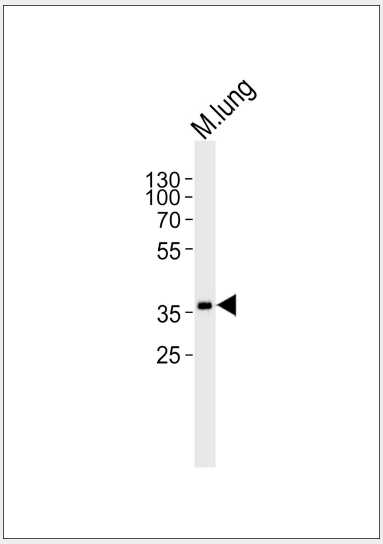


Mouse Hoxa1 Antibody (Center) (Cat. #AP14464c) western blot analysis in mouse kidney tissue lysates (35ug/lane).This demonstrates the Hoxa1 antibody detected the Hoxa1 protein (arrow).



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.

Mouse Hoxa1 Antibody (Center) - 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.