

**Mouse Hoxa1 Antibody (Center)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AW5236**

**Specification**

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**Mouse Hoxa1 Antibody (Center) - Product Information**

Application	WB,E
Primary Accession	<a href="#">P09022</a>
Other Accession	<a href="#">O08656</a> , <a href="#">P49639</a>
Reactivity	Mouse
Predicted	Human, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	H=37;M=36;Rat=36 KDa
Isotype	Rabbit IgG
Antigen Source	MOUSE

**Mouse Hoxa1 Antibody (Center) - Additional Information**

**Antigen Region**  
191-219

**Other Names**  
Hoxa1; Era-1; Hox-1.6; Hoxa-1; Homeobox protein Hox-A1; Early retinoic acid 1; Homeobox protein Hox-1.6; Homeoboxless protein ERA-1-399; Homeotic protein ERA-1-993

**Dilution**  
WB~~1:1000

**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.

**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:<a href="http://www.uniprot.org/citations/29465778" target="\_blank">29465778</a>). 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:<a href="http://www.uniprot.org/citations/29465778" target="\_blank">29465778</a>). 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

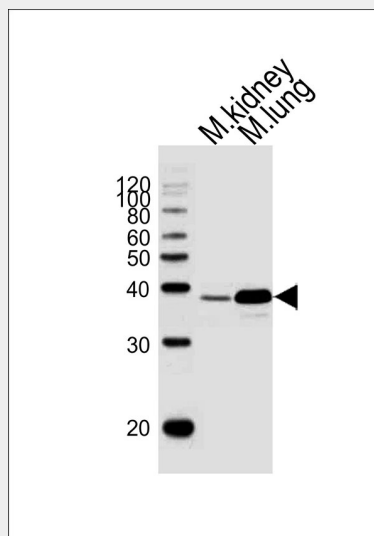
Nucleus.

### 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 Cytometry](#)
- [Cell Culture](#)

### Mouse Hoxa1 Antibody (Center) - Images



Western blot analysis of lysates from mouse kidney, mouse lung tissue lysate (from left to right), using Hoxa1 Antibody (Center)(Cat. #AW5236). AW5236 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody.

### 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.