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39-2132: Polyclonal Antibody to Anti-HOXA1 Antibody(Discontinued)

Clonality :	Polyclonal
Application :	WB
Reactivity :	Human
Gene :	HOXA1
Gene ID :	3198
Uniprot ID :	P49639
Alternative Name :	Homeobox protein Hox-A1; Homeobox protein Hox-1F; HOXA1; HOX1F
Isotype :	Rabbit IgG

Description

HOXA1(HOMEOBOX A1), also called HOMEOBOX 1F, is a protein that in humans is encoded by the HOXA1 gene. In PA-1 teratocarcinoma cells, HOXA1 was induced by retinoic acid earlier than other HOXA cluster genes. The HOXA1 gene is mapped on 7p15.2. In vertebrates, the genes encoding the class of transcription factors called homeobox genes are found in clusters named A, B, C, and D on four separate chromosomes. Expression of these proteins is spatially and temporally regulated during embryonic development. A common polymorphism in the HOXA1 gene is associated with a susceptibility to autism spectrum disorder. Three-dimensional reconstructions of Hoxa1 -/- rhombencephalon revealed that it bears only 5 rhombomeric structures instead of the normal 7. A single maternal administration of a low dose of the vitamin A metabolite retinoic acid was sufficient to compensate the requirement for Hoxa1 function in Hoxa1-deficient mice.

Product Info

Amount :	100 µg/vial
Purification :	Immunogen affinity purified.
Content :	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3. Reconstitute : Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Storage condition :	At -20˚C for one year. After reconstitution, at 4˚C for one month. It can also be aliquotted and stored frozen at -20˚C for a longer time. Avoid repeated freezing and thawing.

Application Note

Western blot : 0.1-0.5µg/ml

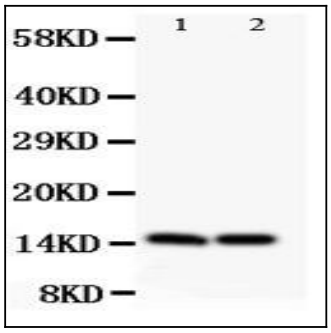


Figure 1: Anti-HOXA1 antibody(39-2132). Western blotting: Lanes: Anti HOXA1(39-2132) at 0.5ug/ml, Lane 1: PC-12 Whole Cell Lysate at 40ug, Lane 2: HELA Whole Cell Lysate at 40ug. Predicted band size: 15 kDa: Observed band size: 15 kDa.

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