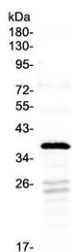


HOXA1 Antibody (C-Terminal Region) [Discontinued] (R32943)

Catalog No.	Formulation	Size
R32943	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	Discontinued
Species Reactivity	Human
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA, 0.025% sodium azide
UniProt	P49639
Applications	Western Blot : 0.5-1ug/ml
Limitations	This HOXA1 antibody is available for research use only.



Western blot testing of human SW620 cell lysate with HOXA1 antibody at 0.5ug/ml. Predicted molecular weight ~37 kDa (isoform 3). This pAb will not detect the ~14 kDa isoform 1 and may weakly detect the ~24 kDa isoform 2.

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.

Application Notes

Optimal dilution of the HOXA1 antibody should be determined by the researcher.

Immunogen

Amino acids 202-243 (AQTFDWMKVKRNPPTGKVGEGYLGQPNAVRTNFTTKQLTE) were used as the immunogen for the HOXA1 antibody.

Storage

After reconstitution, the HOXA1 antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.