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Datasheet for 600-401-AH2

CDX2 Antibody

Overview

Description:	Anti-CDX2 (RABBIT) Antibody - 600-401-AH2
Item No.:	600-401-AH2
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	CDX2 is a member of the caudal homeobox family of transcription factors that also includes the proteins CDX1 and CDX4. CDX2 is strongly expressed in the trophectoderm in the blastocyst with expression maintained within the proliferating extra-embryonic ectoderm during development. It is required for the repression of the transcription of the POU5F1/Oct4 and NANOG genes in the outer cells of the blastocyst and is thus essential for the segregation of the inner cell mass and trophectoderm at the blastocyst stage. Aberrant expression of CDX2 is associated with numerous types of carcinomas, including intestinal metaplasia, gastric carcinoma, and acute myeloid leukemia due to deregulated HOX gene expression.
Synonyms:	CDX2 Antibody, CDX3, CDX-3, CDX3, Homeobox protein CDX-2
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	CDX2
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-CDX2 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 16 amino acid synthetic peptide near the C-terminus of human CDX2.

Purity/Specificity:	Anti-CDX2 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with CDX2 from other sources has not been determined.
Relevant Links:	• UniProtKB - Q99626 • GeneID - 1045 • NCBI - CAA74038

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-CDX2 Antibody has been tested for use in ELISA, Western Blotting, Immunohistochemistry and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 34 kDa in Western Blots of specific cell lysates and tissues.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000
IF:	20 µg/mL
IHC:	5 µg/mL
WB:	1 µg/mL

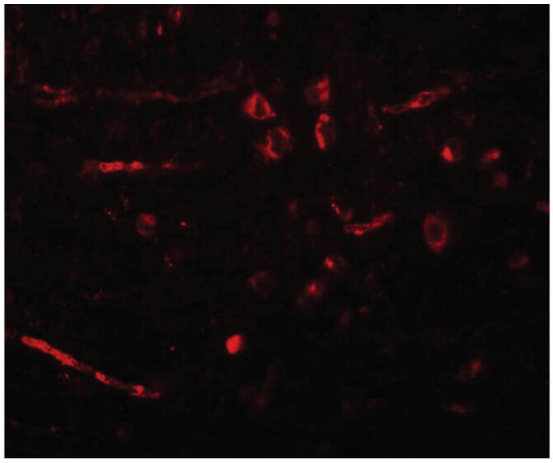
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

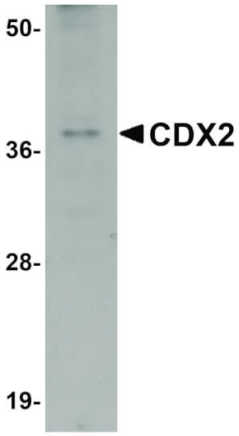
Shipping & Handling

Shipping Condition:	Wet Ice
Storage Condition:	Antibody can be stored at 4°C up to one year. Antibodies should not be exposed to prolonged high temperatures.
Expiration:	Expiration date is one (1) year from date of receipt.

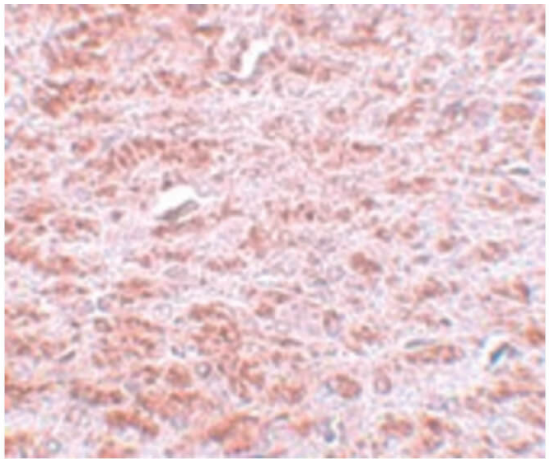
Images



Immunofluorescence Microscopy
Immunofluorescence Microscopy of CDX2 antibody. Tissue: Rat brain cells. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: CDX2 antibody at 20 µg/mL for 1 h at RT. Secondary antibody: Fluorescein rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: CDX2 is nuclear. Staining: CDX2 as red fluorescent signal.



Western Blot
Western Blot of CDX2 antibody. Lane 1: Mouse brain tissue lysate with CDX2 antibody at 1 µg/mL. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C.
Predicted/Observed size: 34 kDa, 37 kDa for CDX2. Other band(s): CDX2 splice variants and isoforms.



Immunohistochemistry
Immunohistochemistry of CDX2 antibody. Tissue: Rat brain tissue. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: CDX2 antibody at 5 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: CDX2 is nuclear. Staining: CDX2 as precipitated pink signal with blue nuclear counterstain.

Disclaimer

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