

## Product datasheet for **CF500251**

### CDX2 Mouse Monoclonal Antibody [Clone ID: OT11A3]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	OT11A3
Applications:	IF, WB
Recommended Dilution:	WB 1:1000
Reactivity:	Human, Dog, Mouse, Rat
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Recombinant protein expressed in E.coli corresponding to amino acids 1-313 of human CDX2
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	33.5 kDa
Gene Name:	caudal type homeobox 2
Database Link:	<a href="#">NP_001256</a> <a href="#">Entrez Gene 12591 Mouse</a> <a href="#">Entrez Gene 66019 Rat</a> <a href="#">Entrez Gene 486028 Dog</a> <a href="#">Entrez Gene 1045 Human</a> <a href="#">Q99626</a>



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**Background:**

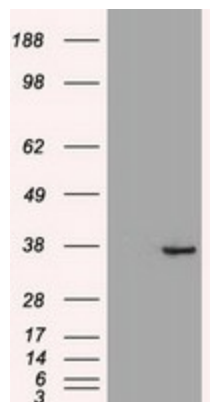
The level and beta-cell specificity of insulin gene expression are regulated by a set of nuclear proteins that bind to specific sequences within the promoter of the insulin gene (INS; MIM 176730) and interact with RNA polymerase to activate or repress transcription. The proteins LMX1 (MIM600298) and CDX3 are homeodomain proteins that bind an A/T-rich sequence in the insulin promoter and stimulate its transcription.

**Synonyms:**

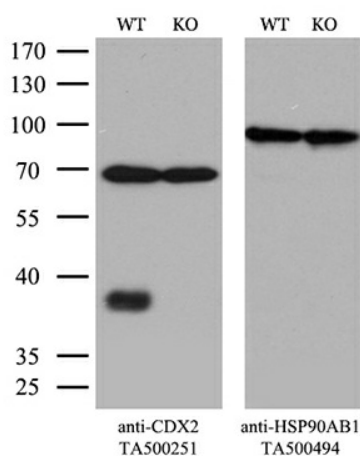
CDX-3; CDX2/AS; CDX3

**Protein Families:**

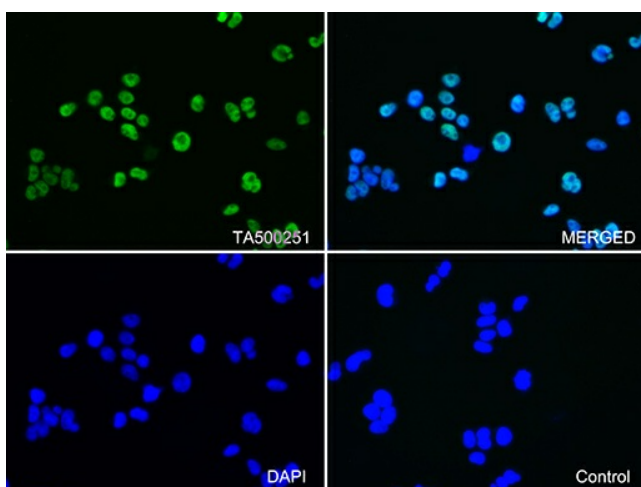
Adult stem cells, Druggable Genome, Embryonic stem cells, ES Cell Differentiation/IPS, Transcription Factors

**Product images:**


HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY CDX2 ([RC204883], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-CDX2. Positive lysates [LY420044] (100ug) and [LC420044] (20ug) can be purchased separately from OriGene.



Equivalent amounts of cell lysates (10 ug per lane) of wild-type 293T cells (WT, Cat# LC810293T) and CDX2-Knockout 293T cells (KO, Cat# [LC810043]) were separated by SDS-PAGE and immunoblotted with anti-CDX2 monoclonal antibody [TA500251]. Then the blotted membrane was stripped and reprobed with anti-HSP90AB1 antibody ([TA500494]) as a loading control (1:500).



Immunofluorescent staining of 293T cells using anti-CDX2 mouse monoclonal antibody ([TA500251], green, upper left; merged, upper right) or Isotype control ( merged, lower right). Cell nuclei were stained with DAPI (blue, lower left) (1:100).