

For Research Use Only

CDX2 Recombinant antibody

Catalog Number: 82659-1-RR

1 Publications



Basic Information

Catalog Number: 82659-1-RR	GenBank Accession Number: BC014461	Purification Method: Protein A purification
Size: 100ul , Concentration: 500 ug/ml by Nanodrop;	GeneID (NCBI): 1045	CloneNo.: 3J1
Source: Rabbit	UNIPROT ID: Q99626	Recommended Dilutions: WB 1:1000-1:5000 IHC 1:500-1:2000 IF/ICC 1:500-1:2000
Isotype: IgG	Full Name: caudal type homeobox 2	
Immunogen Catalog Number: AG17310	Calculated MW: 313 aa, 34 kDa	
	Observed MW: 33-40 kDa	

Applications

Tested Applications: WB, IHC, IF/ICC, ELISA	Positive Controls: WB : Caco-2 cells, mouse colon tissue, COLO 320 cells IHC : rat colon tissue, human colon cancer tissue, human rectal cancer tissue, mouse colon tissue IF/ICC : Caco-2 cells,
Cited Applications: IF	
Species Specificity: human, mouse, rat	
Cited Species: human	
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

Background Information

CDX2, also named as Homeobox protein CDX-2, is a 313 amino acid protein, which contains one homeobox DNA-binding domain and belongs to the Caudal homeobox family. CDX2 localizes in the nucleus and is involved in the transcriptional regulation of multiple genes expression in the intestinal epithelium. The relative expression of CDX1 to CDX2 protein may be important in the anterior to posterior patterning of the intestinal epithelium and in defining patterns of proliferation and differentiation along the crypt-villus axis. Both Cdx1 and Cdx2 genes must be expressed to reduce tumorigenic potential, to increase sensitivity to apoptosis, and to reduce cell migration, suggesting that the two genes control the normal phenotype by independent pathways.

Notable Publications

Author	Pubmed ID	Journal	Application
Rui Dai	38810618	Biofabrication	IF

Storage

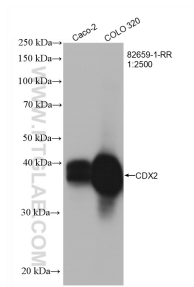
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

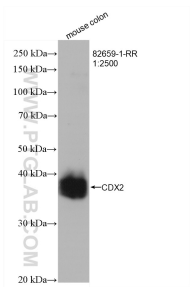
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

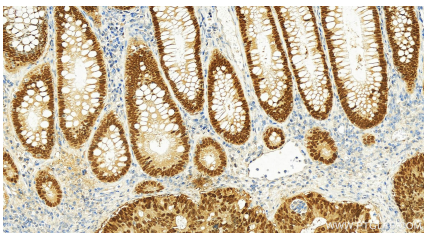
Selected Validation Data



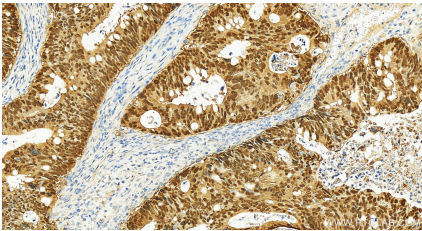
Various lysates were subjected to SDS PAGE followed by western blot with 82659-1-RR (CDX2 antibody) at dilution of 1:2500 incubated at room temperature for 1.5 hours.



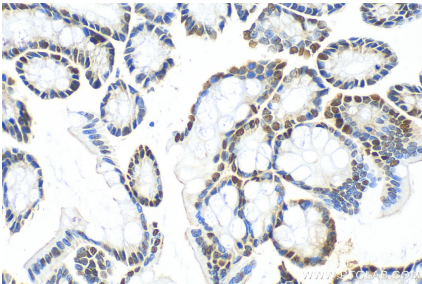
mouse colon tissue were subjected to SDS PAGE followed by western blot with 82659-1-RR (CDX2 antibody) at dilution of 1:2500 incubated at room temperature for 1.5 hours.



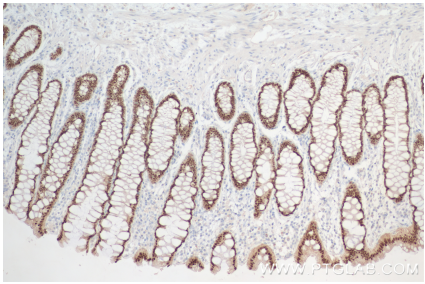
Immunohistochemical analysis of paraffin-embedded human colon cancer slide using 82659-1-RR (CDX2 antibody) at dilution of 1:500 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



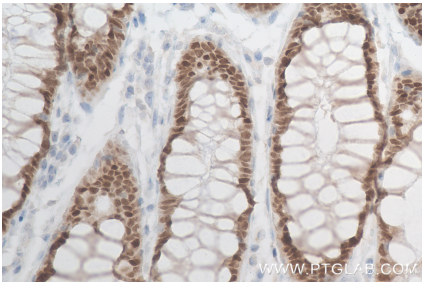
Immunohistochemical analysis of paraffin-embedded human colon cancer slide using 82659-1-RR (CDX2 antibody) at dilution of 1:500 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



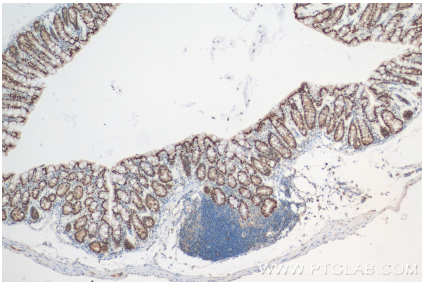
Immunohistochemical analysis of paraffin-embedded rat colon tissue slide using 82659-1-RR (CDX2 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



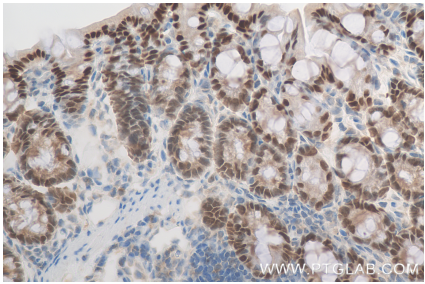
Immunohistochemical analysis of paraffin-embedded human rectal cancer tissue slide using 82659-1-RR (CDX2 antibody) at dilution of 1:2500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



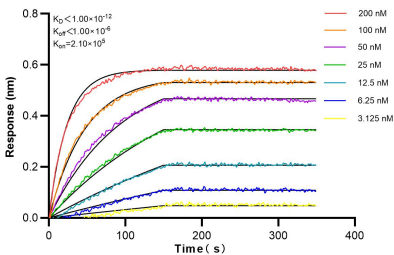
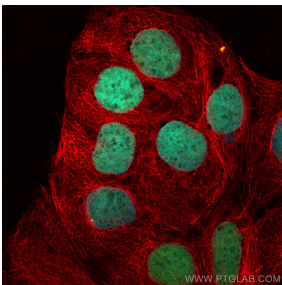
Immunohistochemical analysis of paraffin-embedded human rectal cancer tissue slide using 82659-1-RR (CDX2 antibody) at dilution of 1:2500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse colon tissue slide using 82659-1-RR (CDX2 antibody) at dilution of 1:2500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse colon tissue slide using 82659-1-RR (CDX2 antibody) at dilution of 1:2500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed Caco-2 cells using CDX2 antibody (82659-1-RR, Clone: 3J1) at dilution of 1:1000 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2), Alpha Tubulin antibody (66031-1-Ig, Clone: 1E4C11, red).

Biolayer interferometry (BLI) kinetic assays of 82659-1-RR against Human CDX2 were performed. The affinity constant is below 1 pM.