

## Product datasheet

# Anti-CDX2 antibody [EPR2764Y] ab76541

Recombinant RabMAb

★★★★☆ [17 Abreviews](#) [110 References](#) [15 Images](#)

### Overview

<b>Product name</b>	Anti-CDX2 antibody [EPR2764Y]
<b>Description</b>	Rabbit monoclonal [EPR2764Y] to CDX2
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, IHC-P <b>Unsuitable for:</b> Flow Cyt (Intra) or ICC/IF
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Human <b>Predicted to work with:</b> Rabbit 
<b>Immunogen</b>	Synthetic peptide within Human CDX2 aa 1-100 (N terminal). The exact sequence is proprietary. Database link: <a href="#">Q99626</a>
<b>Positive control</b>	WB: Caco-2, HT-29, human, mouse and rat colon cancer and human small intestine lysates. IHC-P: Human colon, gastric adenocarcinoma, colonic adenocarcinoma, intestinal tissues; Rat and mouse colon tissues.
<b>General notes</b>	This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> For more information <a href="#">see here</a> . Our RabMAb <sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a> .

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Stable for 12 months at -20°C. Store In the Dark.
<b>Dissociation constant (K<sub>D</sub>)</b>	K <sub>D</sub> = 1.00 x 10 <sup>-11</sup> M



[Learn more about K<sub>D</sub>](#)

<b>Storage buffer</b>	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol, 0.05% BSA
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR2764Y
<b>Isotype</b>	IgG

**Applications**

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab76541 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

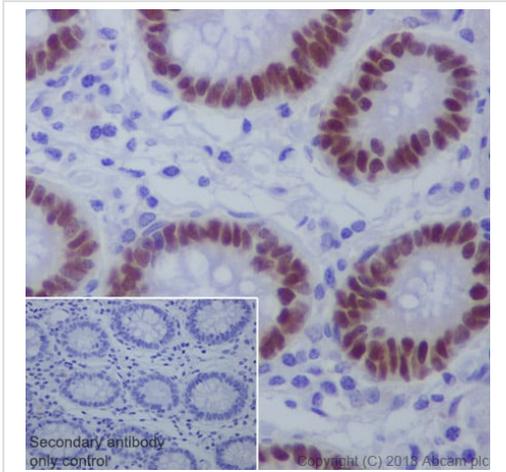
Application	Abreviews	Notes
<b>WB</b>	★★★★★ (1)	1/10000. Detects a band of approximately 40 kDa (predicted molecular weight: 34 kDa). <b>For unpurified use at 1/1000 - 1/5000</b>
<b>IHC-P</b>	★★★★★ (4)	1/1000. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. <b>For unpurified use at 1/250 - 1/500</b> See <a href="#">IHC antigen retrieval protocols</a> .

**Application notes** Is unsuitable for Flow Cyt (Intra) or ICC/IF.

**Target**

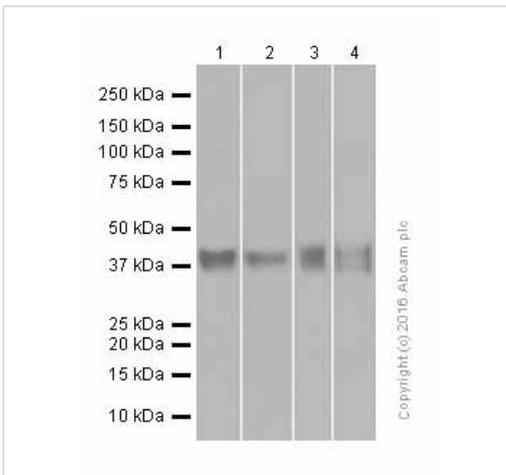
<b>Function</b>	Involved in the transcriptional regulation of multiple genes expressed in the intestinal epithelium. Important in broad range of functions from early differentiation to maintenance of the intestinal epithelial lining of both the small and large intestine.
<b>Sequence similarities</b>	Belongs to the Caudal homeobox family. Contains 1 homeobox DNA-binding domain.
<b>Post-translational modifications</b>	Phosphorylation of Ser-60 mediates the transactivation capacity.
<b>Cellular localization</b>	Nucleus.

**Images**



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CDX2 antibody [EPR2764Y] (ab76541)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human colon tissue sections labeling CDX2 with Purified ab76541 at 1:1000 dilution (0.8 µg/ml). Heat mediated antigen retrieval was performed using **ab93684** (Tris/EDTA buffer, pH 9.0). Goat Anti-Rabbit IgG H&L (HRP) **ab97051** was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.



Western blot - Anti-CDX2 antibody [EPR2764Y] (ab76541)

**All lanes** : Anti-CDX2 antibody [EPR2764Y] (ab76541) at 1/10000 dilution (Purified)

**Lane 1** : Caco-2 (Human colorectal adenocarcinoma epithelial cell) whole cell lysates

**Lane 2** : Human colon cancer lysates

**Lane 3** : Rat colon lysates

**Lane 4** : Mouse colon lysates

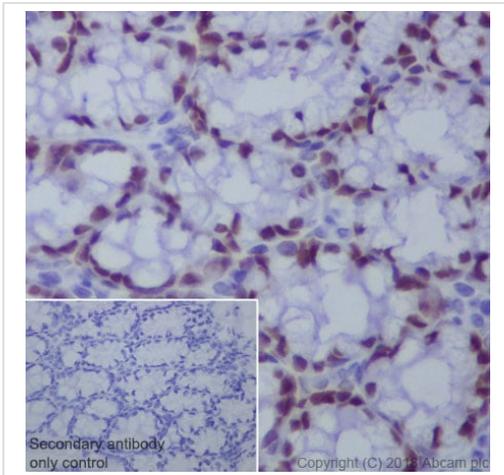
Lysates/proteins at 20 µg per lane.

### Secondary

**All lanes** : Goat Anti-Rabbit IgG (HRP) with minimal cross-reactivity with human IgG at 1/10000 dilution

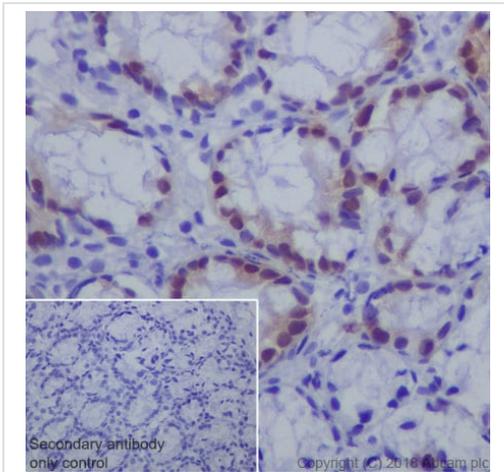
**Predicted band size:** 34 kDa

**Observed band size:** 40 kDa



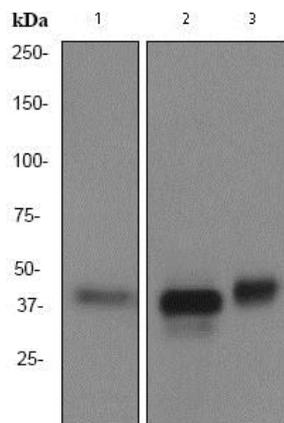
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Mouse colon tissue sections labeling CDX2 with Purified ab76541 at 1:1000 dilution (0.8 µg/ml). Heat mediated antigen retrieval was performed using [ab93684](#) (Tris/EDTA buffer, pH 9.0). Goat Anti-Rabbit IgG H&L (HRP) [ab97051](#) was used as the secondary antibody. Negative control:PBS instead of the primary antibody. Hematoxylin was used as a counterstain.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CDX2 antibody [EPR2764Y] (ab76541)



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Rat colon tissue sections labeling CDX2 with Purified ab76541 at 1:1000 dilution (0.8 µg/ml). Heat mediated antigen retrieval was performed using [ab93684](#) (Tris/EDTA buffer, pH 9.0). Goat Anti-Rabbit IgG H&L (HRP) [ab97051](#) was used as the secondary antibody. Negative control:PBS instead of the primary antibody. Hematoxylin was used as a counterstain.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CDX2 antibody [EPR2764Y] (ab76541)



Western blot - Anti-CDX2 antibody [EPR2764Y] (ab76541)

**Lane 1** : Anti-CDX2 antibody [EPR2764Y] (ab76541) at 1/1000 dilution (Unpurified)

**Lanes 2-3** : Anti-CDX2 antibody [EPR2764Y] (ab76541) at 1/5000 dilution (Unpurified)

**Lane 1** : HT-29 (Human colorectal adenocarcinoma cell line) lysate

**Lane 2** : Colon cancer lysate

**Lane 3** : Human small intestine lysate

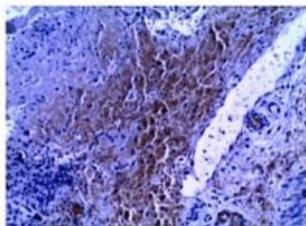
Lysates/proteins at 10 µg per lane.

### Secondary

**All lanes** : HRP labeled goat anti-rabbit at 1/2000 dilution

**Predicted band size:** 34 kDa

**Observed band size:** 40 kDa



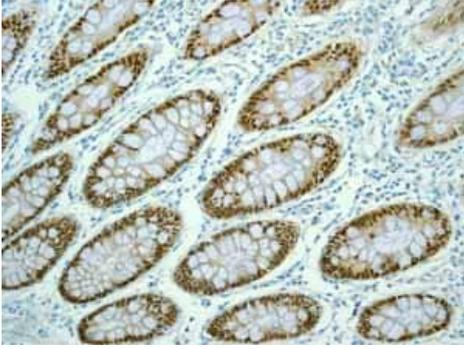
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CDX2 antibody [EPR2764Y] (ab76541)

This image is courtesy of an anonymous Abreview

Unpurified ab76541 staining CDX2 in human intestinal tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections).

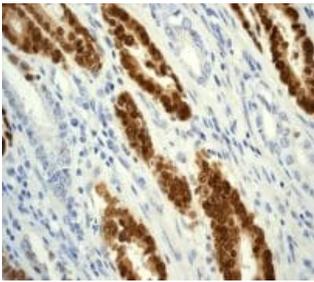
Tissue was fixed with paraformaldehyde and blocked with 5% BSA for 1 hours at 25°C; antigen retrieval was by heat mediation.

Samples were incubated with primary antibody (1/100 in PBS containing 5% BSA) for 18 hours at 4°C. An HRP-conjugated goat anti-rabbit IgG polyclonal (1/500) was used as the secondary antibody.



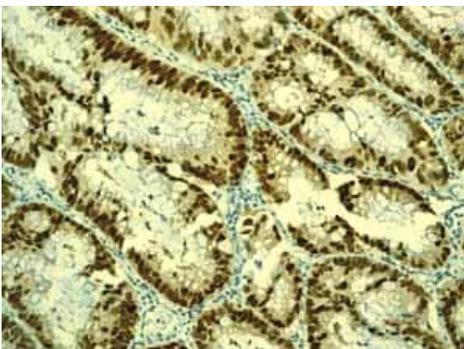
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CDX2 antibody [EPR2764Y] (ab76541)

Unpurified ab76541 showing positive staining in normal colon tissue. Heat mediated antigen retrieval was performed before commencing with IHC staining protocol.



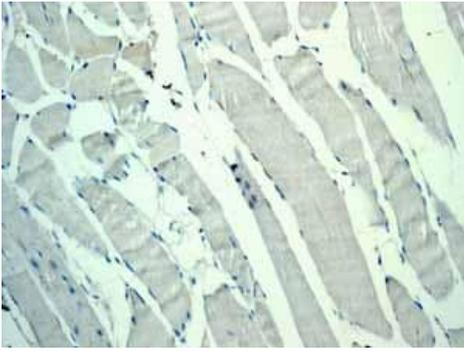
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CDX2 antibody [EPR2764Y] (ab76541)

Unpurified ab76541, at 1/250 dilution, staining CDX2 in paraffin-embedded human gastric adenocarcinoma tissue, by immunohistochemistry. Heat mediated antigen retrieval was performed before commencing with IHC staining protocol.



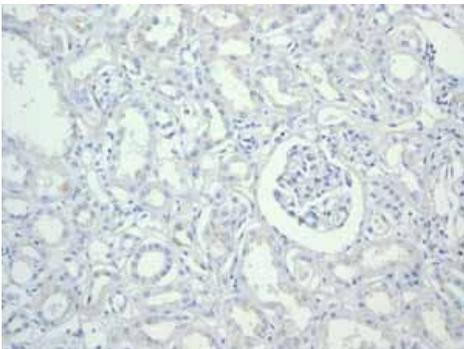
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CDX2 antibody [EPR2764Y] (ab76541)

Unpurified ab76541 showing positive staining in colonic adenocarcinoma tissue. Heat mediated antigen retrieval was performed before commencing with IHC staining protocol.



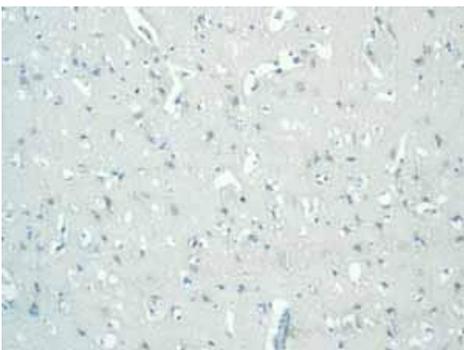
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CDX2 antibody [EPR2764Y] (ab76541)

Unpurified ab76541 showing **negative staining** in skeletal muscle tissue. Heat mediated antigen retrieval was performed before commencing with IHC staining protocol.



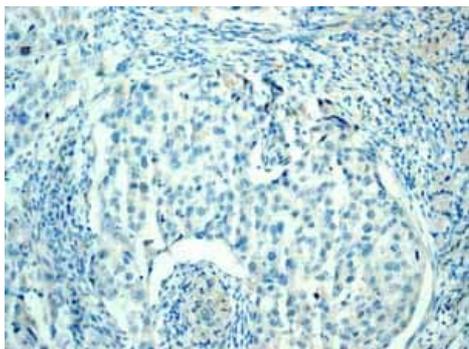
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CDX2 antibody [EPR2764Y] (ab76541)

Unpurified ab76541 showing **negative staining** in normal kidney tissue. Heat mediated antigen retrieval was performed before commencing with IHC staining protocol.



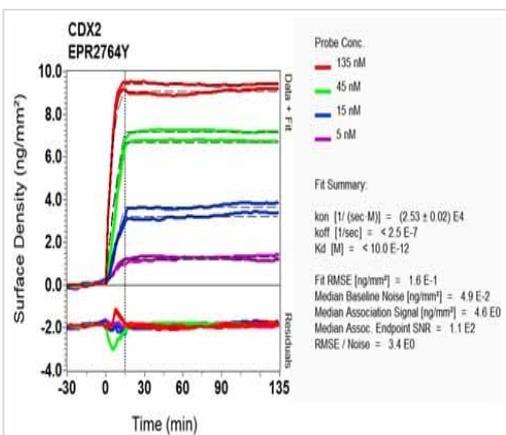
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CDX2 antibody [EPR2764Y] (ab76541)

Unpurified ab76541 showing **negative staining** in normal brain tissue. Heat mediated antigen retrieval was performed before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CDX2 antibody [EPR2764Y] (ab76541)

Unpurified ab76541 showing **negative staining** in normal brain tissue. Heat mediated antigen retrieval was performed before commencing with IHC staining protocol.



OI-RD Scanning - Anti-CDX2 antibody [EPR2764Y] (ab76541)

Equilibrium dissociation constant ( $K_D$ )

Learn more about  $K_D$

[Click here to learn more about  \$K\_D\$](#)

### Why choose a recombinant antibody?



**Research with confidence**  
Consistent and reproducible results



**Long-term and scalable supply**  
Recombinant technology



**Success from the first experiment**  
Confirmed specificity



**Ethical standards compliant**  
Animal-free production

Anti-CDX2 antibody [EPR2764Y] (ab76541)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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