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Phospho-CDX2(S283) Antibody
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP3701a

Specification

Phospho-CDX2(S283) Antibody - Product Information

Application	**WB, DB, IF,E**
Primary Accession	Q99626
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**

Phospho-CDX2(S283) Antibody - Additional Information

Gene ID 1045

Other Names
Homeobox protein CDX-2, CDX-3, Caudal-type homeobox protein 2, CDX2, CDX3

Target/Specificity
This CDX2 Antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding S283 of human CDX2.

Dilution
WB~~1:1000
DB~~1:500
IF~~1:10~50
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
Phospho-CDX2(S283) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Phospho-CDX2(S283) Antibody - Protein Information

Name CDX2

Synonyms CDX3

Function Transcription factor which regulates the transcription of multiple genes expressed in the intestinal epithelium (By similarity). Binds to the promoter of the intestinal sucrase-isomaltase SI and activates SI transcription (By similarity). Binds to the DNA sequence 5'-ATAAAAACTTAT-3' in the promoter region of VDR and activates VDR transcription (By similarity). Binds to and activates transcription of LPH (By similarity). Activates transcription of CLDN2 and intestinal mucin MUC2 (By similarity). Binds to the 5'-AATTTTTTACAACACCT-3' DNA sequence in the promoter region of CA1 and activates CA1 transcription (By similarity). Important in broad range of functions from early differentiation to maintenance of the intestinal epithelial lining of both the small and large intestine. Binds preferentially to methylated DNA (PubMed:28473536).

Cellular Location
Nucleus {ECO:0000250|UniProtKB:P43241}.

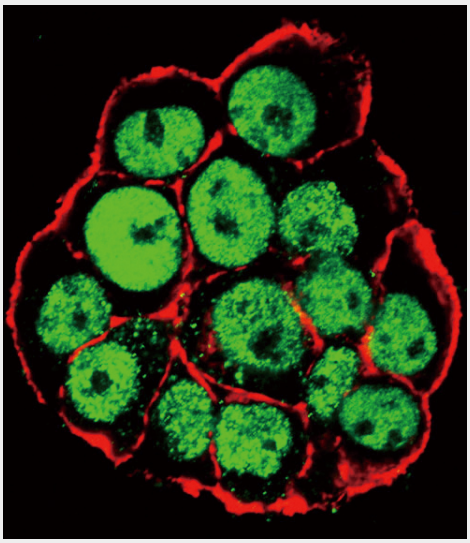
Tissue Location
Detected in small intestine, colon and pancreas.

Phospho-CDX2(S283) Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Phospho-CDX2(S283) Antibody - Images



Confocal immunofluorescent analysis of Phospho-CDX2-S283 Antibody(Cat#AP3701a) with WiDr cell followed by Alexa Fluor 488-conjugated goat anti-rabbit lgG (green). Actin filaments have been labeled with Alexa Fluor 555 phalloidin (red).

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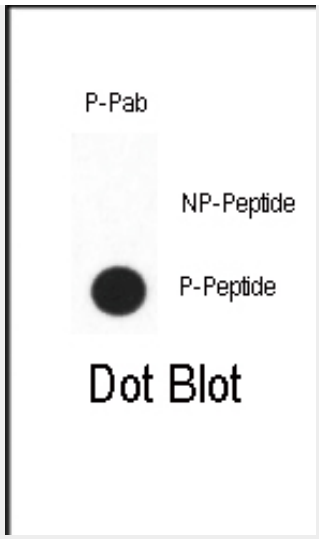

Dot blot analysis of anti-Phospho-CDX2 Phospho-specific Pab (Cat. #AP3701a□?) on nitrocellulose membrane. 50ng of Phospho-peptide or Non Phospho-peptide per dot were adsorbed. Antibody working concentrations are0.5ug per ml.

Phospho-CDX2(S283) Antibody - 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 (MIM 600298) and CDX3 are homeodomain proteins that bind an A/T-rich sequence in the insulin promoter and stimulate its transcription.

Phospho-CDX2(S283) Antibody - References

Benoit, Y.D., et al. Am. J. Physiol. Gastrointest. Liver Physiol. 298 (4), G504-G517 (2010)
Xie, Y., et al. Int. J. Oncol. 36(2):509-516(2010)
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Lora, V., et al. Anticancer Res. 29(12):5033-5037(2009)
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