

Phospho-CDX2(S283) Antibody Blocking peptide
Synthetic peptide
Catalog # BP3701a**Specification**

Phospho-CDX2(S283) Antibody Blocking peptide - Product InformationPrimary Accession [Q99626](#)**Phospho-CDX2(S283) Antibody Blocking peptide - Additional Information****Gene ID** 1045**Other Names**

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

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

Phospho-CDX2(S283) Antibody Blocking peptide - 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'-ATAAAACTTAT-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'-AATTTTTCACACCT-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 Blocking peptide - Protocols

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

- [Blocking Peptides](#)

Phospho-CDX2(S283) Antibody Blocking peptide - Images

Phospho-CDX2(S283) Antibody Blocking peptide - 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 Blocking peptide - 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)Park do, Y., et al. Mod. Pathol. 23(1):54-61(2010)Lora, V., et al. Anticancer Res. 29(12):5033-5037(2009)Porjazova, E., et al. Akush Ginekol (Sofia) 48(4):32-34(2009)