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RFX3 Antibody (C-term) Blocking peptide

Synthetic peptide
Catalog # BP12626b

Specification

RFX3 Antibody (C-term) Blocking peptide - Product Information

Primary Accession P48380

RFX3 Antibody (C-term) Blocking peptide - Additional Information

Gene ID 5991

Other Names
Transcription factor RFX3, Regulatory factor X 3, RFX3

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.

RFX3 Antibody (C-term) Blocking peptide - Protein Information

Name RFX3

Function
Transcription factor required for ciliogenesis and islet cell differentiation during endocrine pancreas development. Essential for the differentiation of nodal monocilia and left-right asymmetry specification during embryogenesis. Required for the biogenesis of motile cilia by governing growth and beating efficiency of motile cells. Also required for ciliated ependymal cell differentiation. Regulates the expression of genes involved in ciliary assembly (DYNC2LI1, FOXJ1 and BBS4) and genes involved in ciliary motility (DNAH11, DNAH9 and DNAH5) (By similarity). Together with RFX6, participates in the differentiation of 4 of the 5 islet cell types during endocrine pancreas development, with the exception of pancreatic PP (polypeptide-producing) cells. Regulates transcription by forming a heterodimer with another RFX protein and binding to the X-box in the promoter of target genes (PubMed:20148032). Represses transcription of MAP1A in non-neuronal cells but not in neuronal cells (PubMed:12411430).

Cellular Location
Nucleus.

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RFX3 Antibody (C-term) Blocking peptide - Protocols

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

- Blocking Peptides

RFX3 Antibody (C-term) Blocking peptide - Images

RFX3 Antibody (C-term) Blocking peptide - Background

This gene is a member of the regulatory factor X genefamily, which encodes transcription factors that contain ahighly-conserved winged helix DNA binding domain. The proteinencoded by this gene is structurally related to regulatory factorsX1, X2, X4, and X5. It is a transcriptional activator that can bindDNA as a monomer or as a heterodimer with other RFX family members.Two transcript variants encoding different isoforms have beendescribed for this gene, and at least one of the variants utilizesalternative polyadenylation signals.

RFX3 Antibody (C-term) Blocking peptide - References

El Zein, L., et al. J. Cell. Sci. 122 (PT 17), 3180-3189 (2009) :Humphray, S.J., et al. Nature 429(6990):369-374(2004)Maijgren, S., et al. Arch. Dermatol. Res. 295(11):482-489(2004)Nakayama, A., et al. J. Biol. Chem. 278(1):233-240(2003)Morotomi-Yano, K., et al. J. Biol. Chem. 277(1):836-842(2002)