

RFX4 Rabbit pAb

Catalog # AP97458

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q33E94
Other Accession	Q33E94
Reactivity	Rat
Predicted	Pig, Human, Mouse, Rabbit, Zebrafish, Chicken, Dog, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	83368
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human RFX4
Epitope Specificity	/101-200/735
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the RFX family. Contains 1 RFX-type winged-helix DNA-binding domain.
SUBUNIT	Homodimer. Heterodimer with RFX2 and RFX3. Binds DNA.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	EP and EP-like sites are regulatory enhancer elements found in the promoters of several viral and mammalian genes which, in humans, include the MIF-1 binding site (MIE) of the c-Myc gene, the X box of MHC class II promoters and a binding site in the PCNA (proliferating cell nuclear antigen) promoter. The EP-like sites present in the X box of MHC class II promoters are distinctly nonpalindromic sequences that contain only a single EP-homologous half-site. The EP-like element is bound by a ubiquitous nuclear protein complex that consists of homo- and heterodimers involving the RFX1, RFX2, RFX3, RFX4 and RFX5 proteins. The RFX proteins represent an essential class II transcription factor family that share several conserved regions, including a centrally located DNA-binding domain (DBD) and a C-terminal D region that facilitates dimerization. RFX4 is a 735 amino acid nuclear protein that, via interactions with other RFX proteins, can bind DNA and is thought to activate the transcription of target genes. Four isoforms, each of which exhibit different tissue specificity, exist due to alternative splicing events.

Additional Information

Gene ID	5992
Other Names	NYD-SP10; 4933412G19Rik; RGD1562092; RFX4_HUMAN; RFX4; Regulatory factor X 4; Testis development protein NYD-SP10; RFX4_MOUSE; regulatory factor X4; regulatory factor X, 4 (influences HLA class II expression)

Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	RFX4
Function	Transcription factor that plays a role in early brain development. May activate transcription by interacting directly with the X-box. May activate transcription from CX3CL1 promoter through the X-box during brain development. May be required for neural tube ciliogenesis during embryogenesis (By similarity).
Cellular Location	Nucleus {ECO:0000255 PROSITE-ProRule:PRU00858}.
Tissue Location	Isoform 1: Expressed in brain and gliomas (at protein level). Isoform 2: Testis-specific (at protein level). Isoform 3: Testis-specific (at protein level). Isoform 3: Expressed at a higher level in adult testes and ejaculated spermatozoa than in fetal testes Isoform 4: Testis-specific.

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