

Rabbit Anti-RFX4 antibody

SL11943R

Product Name RFX4

Chinese Name 转录调控因子 RFX4 抗体

Alias NYD SP10; Regulatory factor X 4; Regulatory factor X, 4 (influences HLA class II expression); Regulatory factor X4 isoform E; Regulatory factor X4 isoform F; Regulatory factor X4, isoform c; Regulatory factor X4, isoform d; Transcription factor RFX4; Winged helix transcription factor RFX4 variant 3; RFX4_HUMAN.

Research Area Cell biology immunology Neurobiology transcriptional regulatory factor Epigenetics

Immunogen Species Rabbit

Clonality Polyclonal

React Species Rat(predicted:Human,Mouse,Chicken,Dog,Pig,Cow,Horse,Rabbit,Zebrafish,Sheep,GuineaPig)
IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500 (Paraffin sections need antigen repair)

Applications not yet tested in other applications.
optimal dilutions/concentrations should be determined by the end user.

Theoretical molecular weight 83kDa

Cellular localization The nucleus

Form Liquid

Concentration 1mg/ml

immunogen KLH conjugated synthetic peptide derived from human RFX4: /101-200/735

Lsotype IgG

Purification affinity purified by Protein A

Buffer Solution 1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.

Storage Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.

Attention This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

PubMed [PubMed](#)

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.

Function:

RFX4 is a transcription factors that contain a highly-conserved winged helix DNA binding domain. RFX4 is structurally related to regulatory factors X1, X2, X3, and X5. It has been shown to interact with itself as well as with regulatory factors X2 and X3, but it does not interact with regulatory factor X1. RFX4 may be a transcriptional repressor rather than a transcriptional activator. This gene is a member of the regulatory factor X gene family, which encodes transcription factors that contain a highly-conserved winged helix DNA binding domain. The protein encoded by this gene is structurally related to regulatory factors X1, X2, X3, and X5. It has been shown to interact with itself as well as with regulatory factors X2 and X3, but it does not interact with regulatory factor X1. This protein may be a transcriptional repressor rather than a transcriptional activator. Three transcript variants encoding different isoforms have been described for this gene.

**Product
Detail**

Subunit:

Homodimer. Heterodimer with RFX2 and RFX3. Binds DNA.

Subcellular Location:

Nuclear

Tissue Specificity:

Isoform 4 is testis-specific. Isoform 1 is expressed in brain and gliomas. Isoform 2 and isoform 3 are testis-specific (at protein level). Isoform 1 is expressed in brain (at protein level). Isoform 3 is expressed at a higher level in adult testes and ejaculated spermatozoa than in fetal testes.

Similarity:

Belongs to the RFX family.

Contains 1 RFX-type winged-helix DNA-binding domain.

SWISS:

Q33E94

Gene ID:
5992

Database links:

[Entrez Gene: 5992](#) Human

[Entrez Gene: 71137](#) Mouse

[Entrez Gene: 500818](#) Rat

[Omim: 603958](#) Human

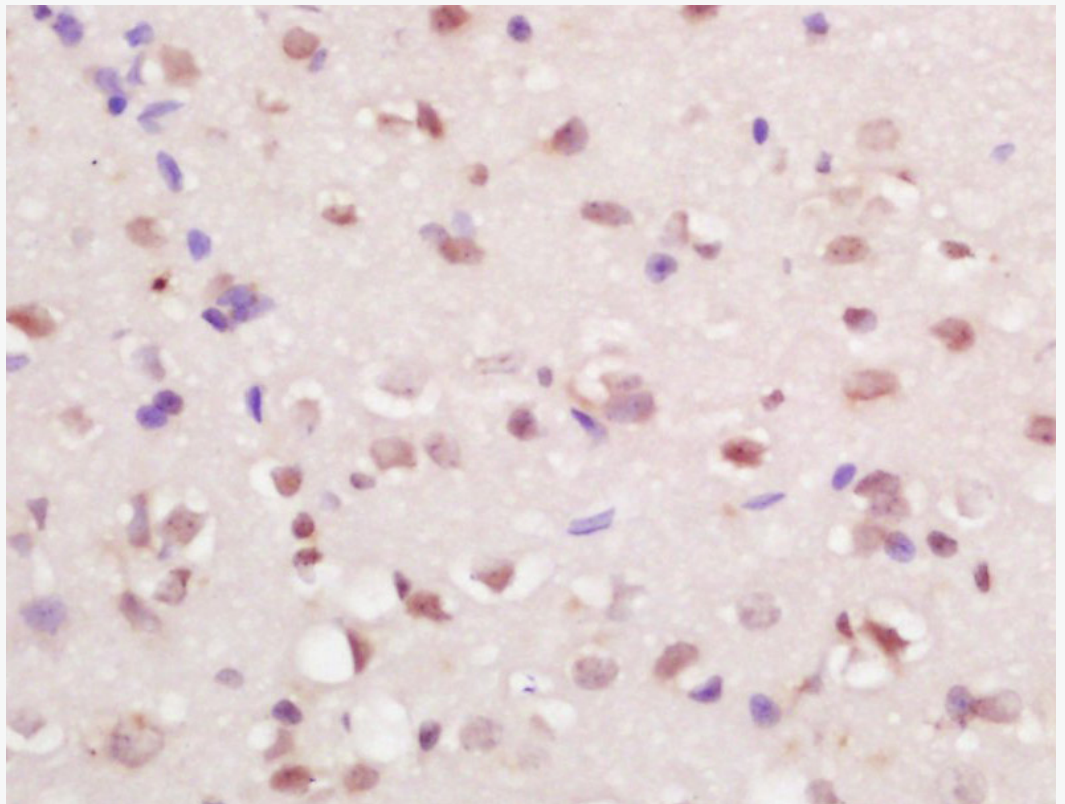
[SwissProt: Q33E94](#) Human

[SwissProt: Q7TNK1](#) Mouse

[Unigene: 388827](#) Human

[Unigene: 79070](#) Mouse

**Product
Picture**



Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;



Antigen retrieval: citrate buffer (1M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-RFX4 Polyclonal Antibody, Unconjugated(SL11943R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining