

RFXANK Antibody / Regulatory factor X-associated ankyrin-containing protein (FY13194)

Catalog No.	Formulation	Size
FY13194	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml	100 ug

Bulk quote request

Availability	1-2 days
Species Reactivity	Human, Mouse, Rat
Format	Lyophilized
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Immunogen affinity purified
Buffer	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
UniProt	O14593
Applications	Western Blot : 0.25-0.5ug/ml Immunocytochemistry : 5ug/ml Immunofluorescence : 5ug/ml Flow Cytometry : 1-3ug/million cells ELISA : 0.1-0.5ug/ml
Limitations	This RFXANK antibody is available for research use only.

Description

RFXANK antibody detects Regulatory factor X-associated ankyrin-containing protein, a transcriptional regulator essential for major histocompatibility complex (MHC) class II gene expression. The UniProt recommended name is Regulatory factor X-associated ankyrin-containing protein (RFXANK). This nuclear protein forms part of the RFX complex with RFX5 and RFXAP, which binds to X-box promoter elements and activates MHC class II transcription.

Functionally, RFXANK antibody identifies a 260-amino-acid nuclear protein containing multiple ankyrin repeats that mediate protein-protein interactions within the RFX complex. RFXANK acts as a scaffold for assembling the class II transactivator (CIITA) and other coactivators at MHC class II promoters, enabling antigen-presenting cells to express HLA-D gene products critical for immune recognition.

The RFXANK gene is located on chromosome 19p12 and is highly expressed in antigen-presenting cells such as B lymphocytes, macrophages, and dendritic cells. Its function is indispensable for adaptive immune activation and T-cell

mediated responses.

Pathologically, mutations in RFXANK cause bare lymphocyte syndrome type II (BLS II), a severe immunodeficiency characterized by loss of MHC class II expression and defective antigen presentation. Research using RFXANK antibody supports studies in transcriptional regulation, immunodeficiency, and antigen presentation biology.

RFXANK antibody is validated for western blotting, immunofluorescence, and immunohistochemistry to detect transcriptional regulators involved in immune gene activation. NSJ Bioreagents provides RFXANK antibody reagents optimized for immunology, transcription, and genetic disease research.

Structurally, Regulatory factor X-associated ankyrin-containing protein contains tandem ankyrin repeats and a nuclear localization signal that mediate its assembly into DNA-binding complexes. This antibody enables investigation of RFXANKÂ's role in immune gene transcription and MHC regulation.

Application Notes

Optimal dilution of the RFXANK antibody should be determined by the researcher.

Immunogen

E.coli-derived human RFXANK recombinant protein (Position: E29-E260) was used as the immunogen for the RFXANK antibody.

Storage

After reconstitution, the RFXANK antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.