

LRIF1 Antibody / Ligand-dependent nuclear receptor-interacting factor 1 / RIF-1 / HBiX1 (FY13158)

Catalog No.	Formulation	Size
FY13158	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml	100 ug

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Availability	1-2 days
Species Reactivity	Human
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 Na ₂ HPO ₄ .
UniProt	Q5T3J3
Applications	Western Blot : 0.25-0.5ug/ml Immunocytochemistry/Immunofluorescence : 5ug/ml Flow Cytometry : 1-3ug/million cells ELISA : 0.1-0.5ug/ml
Limitations	This LRIF1 antibody is available for research use only.

Description

LRIF1 antibody detects Ligand-dependent nuclear receptor-interacting factor 1, a chromatin-associated protein that modulates gene expression through interaction with retinoblastoma protein (RB1) and nuclear receptors. The UniProt recommended name is Ligand-dependent nuclear receptor-interacting factor 1 (LRIF1). Also known as RIF-1 or HBiX1, this protein functions in transcriptional repression and chromatin organization at heterochromatic regions.

Functionally, LRIF1 antibody identifies a 568-amino-acid nuclear protein that forms complexes with RB1 and heterochromatin protein 1 (HP1). LRIF1 recruits repressor complexes to chromatin and stabilizes transcriptionally silent regions, contributing to epigenetic control of gene activity. It also enhances ligand-dependent transcriptional regulation by nuclear receptors, integrating hormonal signaling with chromatin structure.

The LRIF1 gene is located on chromosome 1p36.11 and is ubiquitously expressed in proliferating and differentiated cells. LRIF1 plays key roles in cell cycle regulation, transcriptional silencing, and heterochromatin maintenance, particularly in gene-rich nuclear domains where it supports long-term epigenetic repression.

Pathologically, altered LRIF1 expression or mutation has been implicated in cancer progression and neurodevelopmental disorders through dysregulated chromatin remodeling. Its interaction with RB1 links LRIF1 to tumor-suppressive pathways that control proliferation and differentiation. Research using LRIF1 antibody supports studies in epigenetics, nuclear receptor signaling, and transcriptional repression.

LRIF1 antibody is validated for western blotting, immunoprecipitation, and immunofluorescence to detect chromatin-associated factors and nuclear corepressors. NSJ Bioreagents provides LRIF1 antibody reagents optimized for research in transcriptional regulation, chromatin biology, and epigenetic control.

Structurally, Ligand-dependent nuclear receptor-interacting factor 1 contains coiled-coil and leucine-rich motifs mediating protein-protein interactions with RB1 and HP1. This antibody aids exploration of LRIF1's role in heterochromatin stability and nuclear receptor signaling.

Application Notes

Optimal dilution of the LRIF1 antibody should be determined by the researcher.

Immunogen

E.coli-derived human C1orf103/LRIF1 recombinant protein (Position: Q157-D528) was used as the immunogen for the LRIF1 antibody.

Storage

After reconstitution, the LRIF1 antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.