

ZNRD2 Antibody / Zinc ribbon domain-containing protein 2 / SSSCA1 (FY13077)

Catalog No.	Formulation	Size
FY13077	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, 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 Na ₂ HPO ₄ .
UniProt	O60232
Applications	Western Blot : 0.25-0.5ug/ml Immunohistochemistry : 2-5ug/ml Immunocytochemistry : 5ug/ml Immunofluorescence : 5ug/ml Flow Cytometry : 1-3ug/million cells ELISA : 0.1-0.5ug/ml
Limitations	This ZNRD2 antibody is available for research use only.

Description

ZNRD2 antibody detects Zinc ribbon domain-containing protein 2, a nuclear factor involved in RNA polymerase I transcription and nucleolar organization. The UniProt recommended name is Zinc ribbon domain-containing protein 2 (ZNRD2), also known as Sjogren syndrome/scleroderma autoantigen 1 (SSSCA1). This small zinc-binding protein associates with chromatin and nuclear scaffolds, contributing to transcriptional regulation and RNA processing.

Functionally, ZNRD2 antibody identifies a 179-amino-acid nuclear protein containing a C2H2-type zinc ribbon domain that facilitates nucleic acid and protein interactions. ZNRD2 plays a role in ribosomal RNA synthesis by modulating RNA polymerase I activity within the nucleolus. It interacts with components of the transcriptional machinery, linking chromatin structure to gene expression.

The ZNRD2 gene is located on chromosome 6p21.33 within the major histocompatibility complex (MHC) region, reflecting

its immunological relevance. It is expressed in a variety of tissues, including thymus, spleen, and epithelial cells. ZNRD2 has been identified as an autoantigen in autoimmune disorders such as Sjogren syndrome and scleroderma, where antibodies against SSSCA1 epitopes are frequently detected.

Pathologically, aberrant ZNRD2 expression has been associated with cancer and autoimmunity. Its altered transcriptional activity may contribute to abnormal cell proliferation and immune dysregulation. Because ZNRD2 participates in ribosome biogenesis and nuclear organization, its dysfunction can influence cellular growth and stress responses.

ZNRD2 antibody is suitable for western blotting, immunohistochemistry, and immunofluorescence to study nucleolar structure, RNA synthesis, and autoantigen profiles. NSJ Bioreagents provides validated ZNRD2 antibody reagents optimized for nuclear and transcriptional regulation research.

Structurally, ZNRD2 consists of an N-terminal zinc ribbon domain responsible for nucleic acid binding and a conserved C-terminal tail that interacts with nuclear proteins. This antibody helps elucidate ZNRD2's functions in chromatin-associated transcription and its role as an autoimmune target in connective tissue diseases.

Application Notes

Optimal dilution of the ZNRD2 antibody should be determined by the researcher.

Immunogen

E.coli-derived human SSSCA1/ZNRD2 recombinant protein (Position: Q31-H199) was used as the immunogen for the ZNRD2 antibody.

Storage

After reconstitution, the ZNRD2 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.