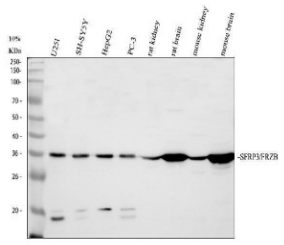
FRZB Antibody / Secreted Wnt Antagonist Antibody (RQ5257)

Catalog No.	Formulation	Size
RQ5257	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P97401
Applications	Western blot: 0.5-1ug/ml Direct ELISA: 0.1-0.5ug/ml
Limitations	This FRZB Antibody / Secreted Wnt Antagonist Antibody is available for research use only.



FRZB Antibody Human, Mouse and Rat WB. Western blot analysis detected FRZB in human U251 (lane 1), SH-SY5Y (lane 2), HepG2 (lane 3) and PC-3 (lane 4) cell lysates, as well as rat kidney (lane 5), rat brain (lane 6), mouse kidney (lane 7) and mouse brain (lane 8). A specific immunoreactive band was observed at approximately 36 kDa, consistent with the predicted molecular weight of FRZB. Stronger expression was evident in rat and mouse brain tissues, reflecting the importance of this secreted Wnt signaling regulator in neural development and tissue homeostasis. This FRZB Antibody, a Secreted Wnt Antagonist Antibody, demonstrates cross-species reactivity for studies of Wnt signaling, skeletal development and extracellular pathway regulation.

Description

FRZB Antibody / Secreted Wnt Antagonist Antibody recognizes Frizzled Related Protein (FRZB), a secreted glycoprotein that functions as an extracellular antagonist of Wnt signaling. By binding Wnt ligands through its frizzled-like cysteine-rich domain, FRZB prevents activation of Wnt receptors and modulates signaling pathways that regulate cell proliferation, differentiation and tissue morphogenesis. As an important extracellular regulator of canonical and non-canonical Wnt signaling, FRZB contributes to embryonic development, skeletal formation and tissue homeostasis. NSJ Bioreagents

provides FRZB antibodies for investigations of developmental biology, extracellular signaling and Wnt pathway regulation.

FRZB is highly expressed in cartilage, developing skeletal tissues and other connective tissues where precise regulation of Wnt signaling is required for normal growth and differentiation. The protein influences chondrocyte maturation, bone remodeling and joint maintenance by balancing osteogenic and chondrogenic signaling pathways. In addition to its developmental functions, FRZB participates in tissue repair and extracellular matrix homeostasis, helping coordinate cellular responses during growth and regeneration. These diverse activities make FRZB an important regulator of musculoskeletal biology and extracellular communication.

Altered FRZB expression has been associated with osteoarthritis, osteoporosis, cancer and other disorders involving dysregulated Wnt signaling. Reduced FRZB activity may enhance Wnt pathway activation, contributing to abnormal cell proliferation, cartilage degeneration and tumor progression, while increased expression has been linked to modulation of tissue remodeling and metastatic potential in several cancers. Consequently, FRZB has become an important research target in orthopedic biology, regenerative medicine, oncology and developmental genetics.

A FRZB Antibody is a valuable reagent for detecting this extracellular Wnt signaling regulator by Western blotting, immunohistochemistry, immunofluorescence, immunoprecipitation and related immunoassays. By enabling reliable analysis of protein expression and localization, a FRZB Antibody supports investigations of Wnt signaling, skeletal development, cartilage biology and extracellular pathway regulation.

Researchers studying embryonic development and tissue morphogenesis may also be interested in our Developmental Biology Antibodies page, featuring antibodies against proteins involved in cell differentiation, patterning and developmental signaling.

Application Notes

Optimal dilution of the FRZB Antibody / Secreted Wnt Antagonist Antibody should be determined by the researcher.

Immunogen

Amino acids N49-K311 from the mouse protein were used as the immunogen for the FRZB antibody.

Storage

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

Alternate Names

FRZB antibody, Secreted Wnt Antagonist antibody, Secreted Frizzled Related Protein 3 antibody, SFRP3 antibody

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