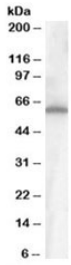
Frizzled 4 Antibody / CD344 Antibody (R33413)

Catalog No.	Formulation	Size
R33413-100UG	0.5 mg/ml in 1X TBS, pH7.3, with 0.5% BSA (US sourced) and 0.02% sodium azide	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Predicted Reactivity	Rat
Format	Antigen affinity purified
Host	Goat
Clonality	Polyclonal (goat origin)
Isotype	Goat Ig
Purity	Antigen affinity
Gene ID	8322
Applications	Western blot: 0.3-1ug/ml ELISA (peptide) LOD: 1:16000
Limitations	This Frizzled 4 Antibody / CD344 Antibody is available for research use only.



Frizzled 4 Antibody Human Ileum WB. Western blot analysis of Frizzled 4 Antibody / CD344 Antibody detected a band corresponding to Frizzled 4 in human ileum cell lysate. The membrane was incubated with Frizzled 4 antibody at 1 ug/ml followed by an HRP-conjugated secondary antibody for chemiluminescent detection. This Frizzled 4 Antibody, also known as a CD344 antibody, supports detection of endogenous FZD4 and is suitable for studies of Wnt receptor expression and intestinal biology.

Description

Frizzled 4 Antibody / CD344 Antibody recognizes Frizzled Class Receptor 4 (FZD4), also known as CD344, a member of the Frizzled family of seven-pass transmembrane receptors that mediates Wnt signaling. CD344 is best known for regulating canonical Wnt signaling through interactions with Wnt ligands and the specialized ligand Norrin, together with co-receptors including LRP5 and TSPAN12. Activation of this receptor influences cell proliferation, differentiation, migration and vascular development, making it an important target for developmental biology, vascular research and

signal transduction studies. NSJ Bioreagents provides Frizzled 4 antibodies for investigating receptor expression and function in normal physiology and disease.

CD344 is highly important for formation and maintenance of the retinal vasculature, where coordinated signaling is required for proper blood vessel growth and integrity. Genetic variants affecting this receptor have been associated with inherited retinal vascular disorders, highlighting its essential biological role. Beyond the eye, Frizzled 4 contributes to endothelial cell function, blood-brain barrier maintenance and tissue homeostasis. Because Wnt signaling is frequently altered during tumor development, CD344 has also become a subject of interest in cancer research, angiogenesis studies and investigations of tissue remodeling.

Researchers commonly examine CD344 expression to characterize Wnt pathway activation, receptor localization and downstream signaling events. Studies frequently evaluate interactions between Frizzled 4, beta-catenin signaling components and associated membrane proteins to better understand developmental processes and disease mechanisms. Detection of receptor expression can provide valuable insight into vascular biology, regenerative medicine, stem cell regulation and therapeutic approaches designed to modulate Wnt signaling pathways.

An Frizzled 4 Antibody is a valuable reagent for detecting CD344 by Western blotting, immunohistochemistry, immunofluorescence, flow cytometry and related immunoassays. A CD344 Antibody supports studies of receptor distribution, Wnt signaling activity, retinal vascular development and endothelial cell biology.

For a broader overview of this receptor and its role in Wnt pathway regulation, see our FZD4 Antibody / Wnt Signaling Receptor Antibody page.

Application Notes

Optimal dilution of the Frizzled 4 Antibody / CD344 Antibody should be determined by the researcher.

Immunogen

Amino acids DEEERRCDPIRIS were used as the immunogen for this Frizzled 4 antibody.

Storage

Aliquot and store the Frizzled 4 antibody at -20oC.

Alternate Names

Frizzled 4 antibody, CD344 antibody, Frizzled Class Receptor 4 antibody, FZD4 antibody, Fz-4 antibody

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