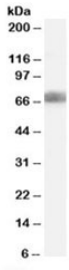
DKK3 Antibody (R33102)

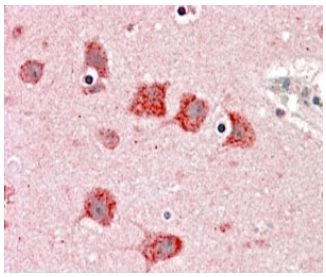
Catalog No.	Formulation	Size
R33102-100UG	0.5 mg/ml in 1X TBS, pH7.3, with 0.5% BSA (US sourced) and 0.02% sodium azide	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Goat
Clonality	Polyclonal (goat origin)
Isotype	Goat Ig
Purity	Antigen affinity
Gene ID	27122
Localization	Cytoplasmic, secreted
Applications	Western Blot : 2-4ug/ml Immunohistochemistry (FFPE) : 5-10ug/ml ELISA (peptide) LOD : 1:16000
Limitations	This DKK3 antibody is available for research use only.



Western blot testing of HEK293 lysate with DKK3 antibody at 2ug/ml. Predicted molecular weight: ~38 kDa, but can be observed at up to 70 kDa due to glycosylation.



IHC staining of FFPE human cortex with DKK3 antibody at 5ug/ml. HIER: steamed with pH6 citrate buffer, AP-staining.

Description

DKK3 antibody recognizes Dickkopf-related protein 3, a member of the Dickkopf protein family encoded by the DKK3 gene. DKK3 is a secreted protein that differs functionally from other Dickkopf family members, as it does not consistently inhibit canonical Wnt signaling. Instead, DKK3 is considered a multifunctional regulatory protein that influences cellular behavior through diverse signaling pathways depending on tissue and cellular context.

Biologically, Dickkopf-related protein 3 has been linked to regulation of cell survival, differentiation, and stress responses. DKK3 has been shown to affect signaling networks involved in growth control and apoptosis, suggesting a role in maintaining balanced cellular homeostasis. Its regulatory activity is often associated with differentiated tissues and controlled growth states. Use of a DKK3 antibody enables investigation of these context-specific signaling functions.

DKK3 is expressed in both normal and diseased tissues, with expression patterns that can change during development, differentiation, and pathological transformation. The protein is produced intracellularly and subsequently secreted, allowing it to function in autocrine and paracrine signaling environments. Altered secretion or expression of DKK3 can disrupt normal signaling balance and contribute to disease-associated phenotypes.

In disease research, DKK3 has attracted significant interest due to its frequent downregulation in cancer. Loss of DKK3 expression has been reported in prostate, lung, renal, and other cancers, where it is associated with increased proliferation and tumor aggressiveness. These findings have positioned DKK3 as a potential tumor suppressor and a marker of disease progression in oncology studies.

At the molecular level, Dickkopf-related protein 3 contains conserved domains that support extracellular stability and interaction with signaling partners. Its activity can be influenced by post-translational processing and secretion efficiency rather than enzymatic modification. DKK3 antibody reagents support research applications focused on cancer signaling, cell differentiation, and extracellular regulatory proteins, with NSJ Bioreagents providing reagents intended for research use.

Application Notes

Optimal dilution of the DKK3 antibody should be determined by the researcher.

Immunogen

Amino acids AAAALLGGEEI were used as the immunogen for this DKK3 antibody.

Storage

Aliquot and store the DKK3 antibody at -20oC.