

AXIN1 Antibody / Axin 1 (FY13148)

Catalog No.	Formulation	Size
FY13148	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
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	O15169
Applications	Western Blot : 0.25-0.5ug/ml Immunocytochemistry : 5ug/ml Immunofluorescence : 5ug/ml ELISA : 0.1-0.5ug/ml
Limitations	This AXIN1 antibody is available for research use only.

Description

AXIN1 antibody detects Axin-1, a scaffolding protein that regulates Wnt signaling and beta-catenin degradation. The UniProt recommended name is Axin-1 (AXIN1). This cytoplasmic protein serves as a core component of the beta-catenin destruction complex, coordinating phosphorylation and proteasomal turnover of beta-catenin to suppress Wnt pathway activation.

Functionally, AXIN1 antibody identifies a 862-amino-acid protein containing a regulator of G protein signaling (RGS) domain, a beta-catenin-binding region, and a DIX domain for homodimerization. AXIN1 recruits APC, GSK3B, and CK1 to form a multiprotein complex that phosphorylates beta-catenin, marking it for degradation. This mechanism ensures tight control of cell proliferation, polarity, and differentiation.

The AXIN1 gene is located on chromosome 16p13.3 and is expressed in most tissues, particularly in epithelial and neural cells. As a negative regulator of Wnt signaling, AXIN1 maintains developmental patterning and prevents aberrant activation of oncogenic transcription programs.

Pathologically, loss or mutation of AXIN1 is associated with hepatocellular carcinoma, colorectal cancer, and developmental anomalies. Decreased AXIN1 function stabilizes beta-catenin, promoting tumor growth and metastasis. Research using AXIN1 antibody supports studies in Wnt pathway regulation, cancer biology, and cell signaling control.

AXIN1 antibody is validated for western blotting, immunohistochemistry, and immunofluorescence to detect Wnt signaling regulators and cytoskeletal scaffolding proteins. NSJ Bioreagents provides AXIN1 antibody reagents optimized for molecular signaling and oncogenesis research.

Structurally, Axin-1 forms extended multimolecular complexes through its DIX domain and interacts with multiple kinases and phosphatases. This antibody enables analysis of AXIN1's scaffold-dependent regulation of beta-catenin turnover and pathway suppression.

Application Notes

Optimal dilution of the AXIN1 antibody should be determined by the researcher.

Immunogen

E.coli-derived human AXIN1 recombinant protein (Position: H534-E792) was used as the immunogen for the AXIN1 antibody.

Storage

After reconstitution, the AXIN1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.