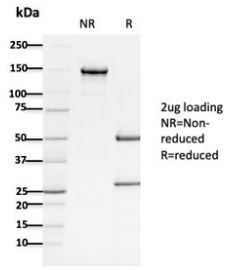
APC Antibody ALi 12-28 / APC Tumor Suppressor Antibody [clone ALi 12-28] (V7847)

Catalog No.	Formulation	Size
V7847-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V7847-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V7847SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	ALi 12-28
Purity	Protein G affinity chromatography
UniProt	P25054
Applications	Flow Cytometry : 1-2ug/10^6 cells in 0.1ml Immunofluorescence : 1-2ug/ml Western Blot : 1-2ug/ml
Limitations	This APC Antibody ALi 12-28 / APC Tumor Suppressor Antibody is available for research use only.



APC Antibody ALi 12-28 Purity Analysis by SDS-PAGE. SDS-PAGE analysis of purified, BSA-free APC Antibody clone ALi 12-28 with 2 ug loaded under non-reduced (NR) and reduced (R) conditions. The non-reduced antibody migrates predominantly at approximately 150 kDa, consistent with intact IgG, while reduction produces the expected immunoglobulin heavy and light chains at approximately 50 kDa and 25 kDa, respectively. The defined banding pattern confirms the integrity and purity of the purified APC Tumor Suppressor Antibody preparation.

Description

APC Antibody ALi 12-28 / APC Tumor Suppressor Antibody recognizes an N-terminal region of adenomatous polyposis coli (APC), a large tumor suppressor protein with a central role in regulation of canonical Wnt signaling. APC helps control cellular beta-catenin levels and contributes to normal epithelial homeostasis, cell adhesion, migration and cytoskeletal organization. Disruption of APC function is strongly associated with colorectal tumorigenesis and familial adenomatous polyposis.

APC is a core component of the beta-catenin destruction complex, where it works with AXIN, GSK3 and other proteins to promote beta-catenin phosphorylation and degradation. Loss or truncation of APC can disrupt this regulatory process, allowing beta-catenin accumulation and increased transcription of Wnt-responsive genes. These effects help explain why APC alterations are among the most important molecular events in colorectal cancer development.

Clone ALi 12-28 is a well-established mouse monoclonal antibody directed against the N-terminal portion of APC. Epitope-mapping studies localized ALi 12-28 recognition to a region encoded by exons 2-3, making the clone useful for detecting APC forms that retain this N-terminal sequence. Published studies have used ALi 12-28 to investigate endogenous and truncated APC proteins, including experiments in colorectal cancer models.

The N-terminal recognition of this APC Tumor Suppressor Antibody is particularly relevant because many cancer-associated APC mutations generate C-terminally truncated proteins while retaining N-terminal sequences. ALi 12-28 has been used experimentally to detect truncated APC proteins that are not recognized by antibodies directed against lost C-terminal regions.

For a recombinant monoclonal reagent directed against a C-terminal region of APC, see our APC Antibody rEMM43 / Adenomatous Polyposis Coli Antibody page. NSJ Bioreagents offers APC Antibody ALi 12-28 for research into APC expression, tumor suppressor biology and Wnt pathway regulation.

For a recombinant monoclonal reagent directed against a C-terminal region of APC, see our APC Antibody rEMM43 / Adenomatous Polyposis Coli Antibody page.

Application Notes

Optimal dilution of the APC Antibody ALi 12-28 / APC Tumor Suppressor Antibody should be determined by the researcher.

Immunogen

A recombinant human partial protein (amino acids 1-433) was used as the immunogen for the APC Antibody ALi 12-28.

Storage

Store the APC Antibody ALi 12-28 at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

Alternate Names

APC antibody, APC tumor suppressor antibody, Adenomatous polyposis coli antibody, Protein APC antibody

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