ARG52651
anti-beta Catenin antibody

Package: 500 µl, 250 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes beta Catenin
Tested Reactivity	Hu, Ms, Rat
Tested Application	ICC/IF, IHC-Fr, IHC-P, IP, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	beta Catenin
Species	Human
Immunogen	Synthetic peptide from C-terminus (768-781) of the beta catenin protein.
Conjugation	Un-conjugated
Alternate Names	CTNNB; armadillo; MRD19; Catenin beta-1; Beta-catenin

Application Instructions

Application table

Application	Dilution
ICC/IF	1:100 - 1:300
IHC-Fr	Assay-dependent
IHC-P	1:100 - 1:300
IP	5 µg/ml
WB	1:200 - 1:1000

Application Note: IHC-P: Antigen Retrieval: Boil tissue section in 10mM citrate buffer, pH 6.0 for 10 min followed by cooling at RT for 20 min.
Incubation Time: 10 min at RT.
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Positive Control: Breast Carcinoma, A431

Properties

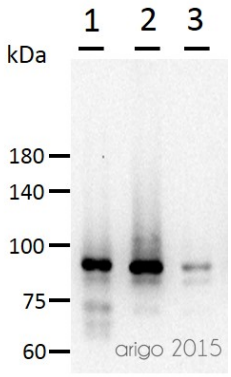
Form	Liquid
Purification	Immunogen affinity purified
Buffer	PBS (pH 7.6), 1% BSA and < 0.1% Sodium azide
Preservative	< 0.1% Sodium azide
Stabilizer	1% BSA

Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

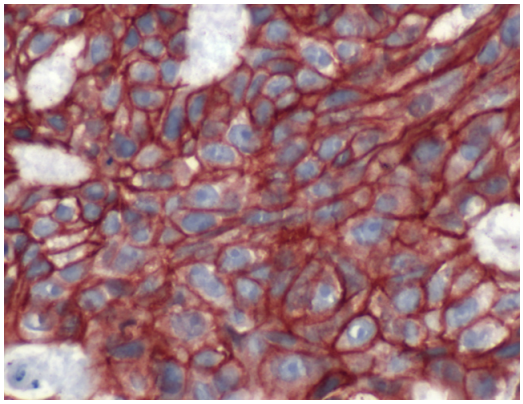
Background	The catenins (α, β and γ) are ubiquitously expressed, cytoplasmic proteins associated with E-cadherin at cellular junctions. β-catenin also binds to N-cadherin and co-immunoprecipitates with APC. Cadherin/catenin complexes are linked to the cytoskeleton via a direct association between α-actinin and α-catenin. Increases tyrosine phosphorylation can disrupt catenin-cadherin complexes, influencing cellular adhesion.
Highlight	Related Antibody Duos and Panels: ARG30144 Phospho beta Catenin Antibody Panel (Total, pS33, pS37, pT41/pS45) Related products: beta Catenin antibodies; beta Catenin Duos / Panels; Anti-Rabbit IgG secondary antibodies; Related news: Besides tumor suppression, what's p53 busy for during embryogenesis? Wnt / beta-catenin signaling for gastric fundus specification
Research Area	Cancer antibody; Cell Biology and Cellular Response antibody; Developmental Biology antibody; Neuroscience antibody; Signaling Transduction antibody
Calculated Mw	85 kDa
PTM	Phosphorylation at Ser-552 by AMPK promotes stabilizion of the protein, enhancing TCF/LEF-mediated transcription (By similarity). Phosphorylation by GSK3B requires prior phosphorylation of Ser-45 by another kinase. Phosphorylation proceeds then from Thr-41 to Ser-37 and Ser-33. Phosphorylated by NEK2. EGF stimulates tyrosine phosphorylation. Phosphorylation on Tyr-654 decreases CDH1 binding and enhances TBP binding. Phosphorylated on Ser-33 and Ser-37 by HIPK2 and GSK3B, this phosphorylation triggers proteasomal degradation (PubMed:25169422). Phosphorylation on Ser-191 and Ser-246 by CDK5. Phosphorylation by CDK2 regulates insulin internalization. Phosphorylation by PTK6 at Tyr-64, Tyr-142, Tyr-331 and/or Tyr-333 with the predominant site at Tyr-64 is not essential for inhibition of transcriptional activity. Ubiquitinated by the SCF(BTRC) E3 ligase complex when phosphorylated by GSK3B, leading to its degradation. Ubiquitinated by a E3 ubiquitin ligase complex containing UBE2D1, SIAH1, CACYBP/SIP, SKP1, APC and TBL1X, leading to its subsequent proteasomal degradation (By similarity). S-nitrosylation at Cys-619 within adherens junctions promotes VEGF-induced, NO-dependent endothelial cell permeability by disrupting interaction with E-cadherin, thus mediating disassembly adherens junctions. O-glycosylation at Ser-23 decreases nuclear localization and transcriptional activity, and increases localization to the plasma membrane and interaction with E-cadherin CDH1. Deacetylated at Lys-49 by SIRT1.
Cellular Localization	Cytoplasm, Membrane

Images



ARG52651 anti-beta Catenin antibody WB image

Western blot: 30 µg of 1) 293T, 2) 3T3, and 3) Mouse liver lysate stained with ARG52651 anti-beta Catenin antibody at 1:500 dilution.



ARG52651 anti-Catenin-beta antibody IHC-P image

Immunohistochemistry: Human Breast Carcinoma stained with Catenin-beta antibody (ARG52651)