

AXIN1 Polyclonal Antibody

Catalog Number34-5900

Product data sheet

Details		Species Reactivity	
Size	100 µg	Published species	Fruit fly, Non-human primate, Mouse, Human, Not Applicable
Host/Isotope	Rabbit / IgG		
Class	Polyclonal	Tested Applications	
Type	Antibody	Immunoprecipitation (IP)	Assay-dependent
Immunogen	Synthetic peptide derived from the internal region of the human Axin protein. Based on amino acid sequence, this antibody is not expected to cross-react with Axin-2.	Western Blot (WB)	Assay-dependent
		Immunocytochemistry (ICC/IF)	Assay-dependent
Conjugate	Unconjugated	Published Applications	
Form	Liquid	Western Blot (WB)	See 8 publications below
Concentration	0.25 mg/mL	Immunohistochemistry (IHC)	See 3 publications below
Storage Conditions	-20°C	Miscellaneous PubMed (Misc)	See 1 publications below
		Immunoprecipitation (IP)	See 1 publications below
* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.			

Background/Target Information

AXIN1 is a cytoplasmic protein which contains a regulation of G-protein signaling (RGS) domain and a disheveled and axin (DIX) domain and is thought to function as a negative regulator of the WNT signaling pathway that regulates embryonic axis formation. AXIN1 interacts with adenomatosis polyposis coli (APC), beta-catenin, glycogen synthase kinase 3 beta, forming a tetrameric complex resulting in the regulation of the stabilization of beta-catenin. Mutations in the AXIN1 gene have been associated various carcinomas, indicating that it also functions as a tumor suppressor.

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PubMed References For AXIN1 Polyclonal Antibody

8 Western Blot References

Species / Dilution	Summary
	34-5900 was used in western blot to elucidate the contributions of LRP5 and LRP6 to Wnt signaling.
Human / Not Cited	PloS one (2012; 6:) "Dissecting molecular differences between Wnt coreceptors LRP5 and LRP6." Author(s):MacDonald BT,Semenov MV,Huang H,He X PubMed Article URL: http://dx.doi.org/10.1371/journal.pone.0023537
	34-5900 was used in western blot to screen for host factors that modulate human immunodeficiency virus type-1 replication
Not Applicable / Not Cited	Biochemical and biophysical research communications (2007; 359: 729) "Identification of the suppressive factors for human immunodeficiency virus type-1 replication using the siRNA mini-library directed against host cellular genes." Author(s):Kameoka M,Kitagawa Y,Utachee P,Jinnopat P,Dhepakson P,Isarangkura-na-ayuthaya P,Tokunaga K,Sato H,Komano J,Yamamoto N,Oguchi S,Natori Y,Ikuta K PubMed Article URL: http://dx.doi.org/10.1016/j.bbrc.2007.05.173
	34-5900 was used in Western Blotting to investigate the function of ROS proto-oncogene 1 receptor tyrosine kinase in regulating the migration and proliferation of acute myeloid leukaemia cells through Wnt/-catenin signalling, and in arsenic trioxide treatment.
Human / 1:200	Oncology letters (2018; 15: 9392) "Downregulation of ROS1 enhances the therapeutic efficacy of arsenic trioxide in acute myeloid leukemia cell lines." Author(s):Li J PubMed Article URL: http://dx.doi.org/10.3892/ol.2018.8458
	34-5900 was used in western blot to predict Wnt signaling in human colorectal cancers.
Human / Not Cited	PloS one (2012; 7:) "Wnt signalling pathway parameters for mammalian cells." Author(s):Tan CW,Gardiner BS,Hirokawa Y,Layton MJ,Smith DW,Burgess AW PubMed Article URL: http://dx.doi.org/10.1371/journal.pone.0031882
	34-5900 was used in western blot to identify and characterize two distinct soluble protein pools containing APC
Not Applicable / 1:100	Journal of cell science (2005; 118: 4741) "The adenomatous polyposis coli protein (APC) exists in two distinct soluble complexes with different functions." Author(s):Penman GA,Leung L,Näthke IS PubMed Article URL: http://dx.doi.org/10.1242/jcs.02589
Fruit fly / Not Cited	Proceedings of the National Academy of Sciences of the United States of America (2004; 101: 2882)
Non-human primate / Not Cited	"Nuclear-cytoplasmic shuttling of Axin regulates subcellular localization of beta-catenin." Author(s):Cong F,Varmus H PubMed Article URL: http://dx.doi.org/10.1073/pnas.0307344101
Human / Not Cited	
	Published figure using AXIN1 polyclonal antibody (Product # 34-5900) in Western Blot
Not Applicable / Not Cited	EMBO reports (2021; 22:) "USP42 protects ZNRF3/RNF43 from R-spondin-dependent clearance and inhibits Wnt signalling." Author(s):Giebel N,de Jaime-Soguero A,García Del Arco A,Landry JJM,Tietje M,Villacorta L,Benes V,Fernández-Sáiz V,Acebrón SP PubMed Article URL: http://dx.doi.org/10.15252/embr.202051415
	34-5900 was used in Western Blotting to study the effects and mechanism of forskolin on the progression of Non-Hodgkin's lymphoma.
Human / Not Cited	Cancer management and research (2022; 11: 1685) "Forskolin exerts anticancer roles in non-Hodgkin's lymphomas via regulating Axin/-catenin signaling pathway." Author(s):Wang H,Lou C,Ma N PubMed Article URL: http://dx.doi.org/10.2147/CMAR.S180754

3 Immunohistochemistry References

Species / Dilution	Summary
	British journal of cancer (2003; 88: 1734)
Human / Not Cited	"Reduced expression of Axin correlates with tumour progression of oesophageal squamous cell carcinoma." Author(s):Nakajima M,Fukuchi M,Miyazaki T,Masuda N,Kato H,Kuwano H PubMed Article URL: http://dx.doi.org/10.1038/sj.bjc.6600941

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Human / Not Cited	<p>British journal of cancer (2004; 90: 892) "Frequent loss of the AXIN1 locus but absence of AXIN1 gene mutations in adenocarcinomas of the gastro-oesophageal junction with nuclear beta-catenin expression." Author(s):Koppert LB,van der Velden AW,van de Wetering M,Abbou M,van den Ouweland AM,Tilanus HW,Wijnhoven BP, Dinjens WN PubMed Article URL:http://dx.doi.org/10.1038/sj.bjc.6601589</p>
Mouse / 1:100	<p>34-5900 was used in Immunohistochemistry to investigate if post-transcriptional regulation of tankyrase serves as a ligand-independent developmental mechanism for post-translational -catenin activation and if is required to complete embryonic genome activation.</p> <p>Developmental cell (2020; 53: 545) "Developmentally Programmed Tankyrase Activity Upregulates -Catenin and Licenses Progression of Embryonic Genome Activation." Author(s):Gambini A,Stein P,Savy V,Grow EJ,Papas BN,Zhang Y,Kenan AC,Padilla-Banks E,Cairns BR,Williams CJ PubMed Article URL:http://dx.doi.org/10.1016/j.devcel.2020.04.018</p>
1 Miscellaneous PubMed References	
Species / Dilution	Summary
Human / 1:1000	<p>34-5900 was used in western blot to assess the effects of Wnt-3a and beta-catenin on the differentiation of ReNcell VM human neural progenitor cells</p> <p>Biochemical and biophysical research communications (2010; 400: 358) "Differentiation of human neural progenitor cells regulated by Wnt-3a." Author(s):Hübner R,Schmöle AC,Liedmann A,Frech MJ,Rolfs A,Luo J PubMed Article URL:http://dx.doi.org/10.1016/j.bbrc.2010.08.066</p>
1 Immunoprecipitation References	
Species / Dilution	Summary
Human / Not Cited	<p>Proceedings of the National Academy of Sciences of the United States of America (2003; 100: 15572) "Epstein-Barr virus activates beta-catenin in type III latently infected B lymphocyte lines: association with deubiquitinating enzymes." Author(s):Shackelford J,Maier C,Pagano JS PubMed Article URL:http://dx.doi.org/10.1073/pnas.2636947100</p>

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