Datasheet for ABIN2715088

Axin Protein (Transcript Variant 2) (Myc-DYKDDDDK Tag)

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Overview

Quantity:	20 µg
Target:	Axin (AXIN1)
Protein Characteristics:	Transcript Variant 2
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Axin protein is labelled with Myc-DYKDDDDK Tag.
Application:	Antibody Production (AbP), Standard (STD)

Product Details

Characteristics:	• Recombinant human Axin-1 (transcript variant 2) protein expressed in HEK293 cells. • Produced with end-sequenced ORF clone
Purity:	> 80 % as determined by SDS-PAGE and Coomassie blue staining

Target Details

Target:	Axin (AXIN1)
Alternative Name:	Axin-1 (AXIN1 Products)
Background:	This gene encodes a cytoplasmic protein which contains a regulation of G-protein signaling (RGS) domain and a dishevelled and axin (DIX) domain. The encoded protein interacts with adenomatosis polyposis coli, catenin beta-1, glycogen synthase kinase 3 beta, protein phosphate 2, and itself. This protein functions as a negative regulator of the wingless-type

Target Details

	MMTV integration site family, member 1 (WNT) signaling pathway and can induce apoptosis. The crystal structure of a portion of this protein, alone and in a complex with other proteins, has been resolved. Mutations in this gene have been associated with hepatocellular carcinoma, hepatoblastomas, ovarian endometriod adenocarcinomas, and medullablastomas. Alternative splicing results in multiple transcript variants.
Molecular Weight:	91.5 kDa
NCBI Accession:	NP_851393
Pathways:	WNT Signaling, Sensory Perception of Sound, Regulation of G-Protein Coupled Receptor Protein Signaling

Application Details

Application Notes:	Recombinant human proteins can be used for: Native antigens for optimized antibody production Positive controls in ELISA and other antibody assays
Comment:	The tag is located at the C-terminal.
Restrictions:	For Research Use only

Handling

Concentration:	50 µg/mL
Buffer:	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10 % glycerol.
Storage:	-80 °C
Storage Comment:	Store at -80°C. Thaw on ice, aliquot to individual single-use tubes, and then re-freeze immediately. Only 2-3 freeze thaw cycles are recommended.

Publications

Product cited in:	Shiryaev, Aleshin, Muranaka, Kukreja, Routenberg, Remacle, Liddington, Cieplak, Kozlov, Strongin: "Structural and functional diversity of metalloproteinases encoded by the Bacteroides fragilis pathogenicity island." in: **The FEBS journal**, Vol. 281, Issue 11, pp. 2487-502, (2014) (PubMed). Ge, Siegel, Jordan, Naumann: "Ligand binding alters dimerization and sequestering of urokinase receptors in raft-mimicking lipid mixtures." in: **Biophysical journal**, Vol. 107, Issue 9, pp. 2101-11

Publications

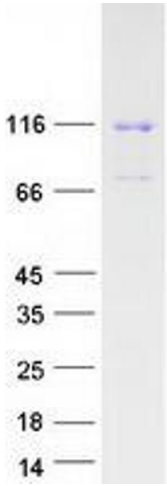
, (2014) (PubMed).

Garcia-Sanz, Quintanilla, Lafita, Moreno-Bueno, García-Gutierrez, Tabor, Varela, Shiio, Larsson, Portillo, Leon: "Sin3b interacts with Myc and decreases Myc levels." in: **The Journal of biological chemistry**, Vol. 289, Issue 32, pp. 22221-36, (2014) (PubMed).

Wang, Henry, Distefano, Wang, Räikkönen, Mönkkönen, Tanaka, Morita: "Butyrophilin 3A1 plays an essential role in prenyl pyrophosphate stimulation of human V?2V?2 T cells." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 191, Issue 3, pp. 1029-42, (2013) (PubMed).

Bardeleben, Sharma, Reeve, Bassilian, Frost, Hoang, Shi, Lichtenstein: "Metabolomics identifies pyrimidine starvation as the mechanism of 5-aminoimidazole-4-carboxamide-1-β-riboside-induced apoptosis in multiple myeloma cells." in: **Molecular cancer therapeutics**, Vol. 12, Issue 7, pp. 1310-21, (2013) (PubMed).

Images



Western Blotting

Image 1. Validation with Western Blot