Datasheet for ABIN2784899

anti-COPB1 antibody (Middle Region)

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Overview

Quantity:	100 µL
Target:	COPB1
Binding Specificity:	Middle Region
Reactivity:	Human, Mouse, Rat, Cow, Dog, Horse, Guinea Pig, Rabbit, Zebrafish (Danio rerio)
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This COPB1 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the middle region of human COPB1
Sequence:	QLALDLVSSR NVEELVIVLK KEVIKTNNVS EHEDTDKYRQ LLVRTLHSCS
Predicted Reactivity:	Cow: 100%, Dog: 100%, Guinea Pig: 100%, Horse: 93%, Human: 100%, Mouse: 100%, Rabbit: 100%, Rat: 100%, Zebrafish: 93%
Characteristics:	This is a rabbit polyclonal antibody against COPB1. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

Target Details

Target:	COPB1

Target Details

Alternative Name:	COPB1 (COPB1 Products)
Background:	The coatomer is a cytosolic protein complex that binds to dilysine motifs and reversibly associates with Golgi non-clathrin-coated vesicles, which further mediate biosynthetic protein transport from the ER, via the Golgi up to the trans Golgi network. Coatomer complex is required for budding from Golgi membranes, and is essential for the retrograde Golgi-to-ER transport of dilysine-tagged proteins. In mammals, the coatomer can only be recruited by membranes associated to ADP-ribosylation factors (ARFs), which are small GTP-binding proteins, the complex also influences the Golgi structural integrity, as well as the processing, activity, and endocytic recycling of LDL receptors. Alias Symbols: COPB, DKFZp761K102, FLJ10341 Protein Interaction Partner: SUMO2, NUDCD1, UBC, RNF2, EZH2, KLC1, DIAPH1, ARCN1, ACACA, COPG1, COPZ1, TLE3, FBXO6, UBD, KCNK3, KCNK9, NPM1, HDAC10, ERBB2IP, SNTA1, LZTS2, VPS18, NUB1, SERTAD1, FOXB1, IRAK3, TANK, ID1, HLA-DPB1, GRB2, XRCC6, FN1, CFTR, FMNL1, COPG2, COPE, COPB2, COPA Protein Size: 953
Molecular Weight:	107 kDa
Gene ID:	1315
NCBI Accession:	NM_016451, NP_057535
UniProt:	P53618

Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 953 AA
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide

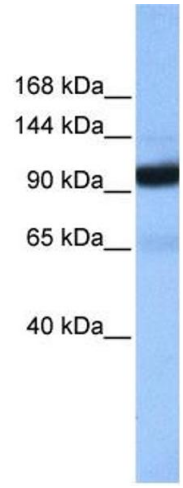
Handling

Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Publications

Product cited in:	Basten, Davis, Gillis, van Rooijen, Stoop, Babala, Logister, Heath, Jonges, Katsanis, Voest, van Eeden, Medema, Ketting, Schulte-Merker, Looijenga, Giles: "Mutations in LRRC50 predispose zebrafish and humans to seminomas." in: **PLoS genetics**, Vol. 9, Issue 4, pp. e1003384, (2013) (PubMed). Lazrek, Goffard, Schanen, Karquel, Bocket, Lion, Devaux, Hedouin, Gosset, Hober: "Detection of hepatitis C virus antibodies and RNA among medicolegal autopsy cases in Northern France." in: **Diagnostic microbiology and infectious disease**, Vol. 55, Issue 1, pp. 55-8, (2006) (PubMed).

Images



Western Blotting

Image 1. WB Suggested Anti-COPB1 Antibody Titration: 0.2-1 ug/ml

Positive Control: Human Liver