

Product Specification Sheet

Product: Affinity Purified Anti-Human AP3D1 (Goat)

Code: 600-101-290

Lot #: 13861

Size: 100 µg

Physical State: Liquid (sterile filtered)

Antibody Concentration: 1.6 mg/ml (by UV absorbance at 280 nm)

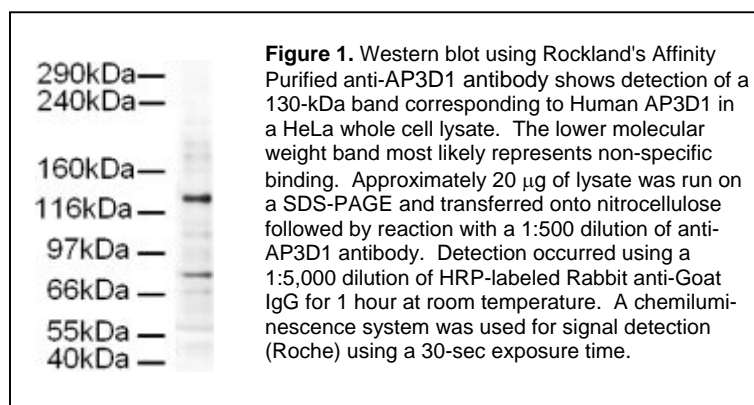
Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2

Stabilizer: None

Preservative: 0.01% (w/v) Sodium Azide

Storage Conditions: Store vial at -20° C prior to opening. Dilute only prior to immediate use. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Expiration date is one (1) year from date of opening.

Background Information: AP3D1 (also known as Delta-adaptin 3, AP-3 complex delta subunit and Delta-adaptin) is a subunit of the AP3 adaptor-like complex, which is not associated with clathrin. The AP3D1 subunit is implicated in intracellular biogenesis and trafficking of pigment granules and possibly platelet dense granules and neurotransmitter vesicles.



Application Note(s): This affinity purified antibody has been tested for use in ELISA and by western blot. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 130 kDa in size corresponding to AP3D1 by western blotting in the appropriate cell lysate or extract. Multiple isoforms exist for this protein.

Recommended Dilutions:	ELISA	1:5,000 - 1:20,000
	WESTERN BLOT	1:500 - 1:2,000
	IF MICROSCOPY	User Optimized
	OTHER APPLICATIONS	User Optimized

Purity and Specificity: This affinity purified antibody is directed against human AP3D1. The product was affinity purified from antiserum by immunoaffinity purification. A BLAST analysis was used to suggest reactivity with this protein from human, chimpanzee and chicken based on 100% homology for the immunogen sequence. Cross reactivity with AP3D1 protein from mouse, rat, dog and cow may occur as sequence homology varies by only one amino acid residue in this sequence as indicated by BLAST analysis. Reactivity with AP3D1 proteins from other sources is not known.

Relevant Link(s): Swiss Prot: [O14617](#) NCBI Link [NP_003929](#)

Protein Sequence: Human AP3D1, 1138 aa, predicted MW 128.6 kDa

1	malkmvgksi	drmfdknlqd	lvrgirnhke	deakyisqci	deikqelkqd	niavkanavc
61	kltylqmlgy	diswaafnii	evmsaskff	krigylaasq	sfhegtdvim	ltnqirkdl
121	sspsqydtgv	altglscfv	pdlardland	imtlmshtkp	yirkkavlim	ykvflkypes
181	lrpafprlke	kledpdpvgv	saavnicel	arnpknyls	laplffklmt	sstnnwvlik
241	iiklfgalt	leprlgkli	epitnlhist	samsllyecv	ntviavlisl	ssgmpnhsas
301	iqicvqlri	liedsdqnlk	ylgllamski	lkthpksvqs	hkdlilqcl	dkdesirlra
361	ldlygmvsq	knlmeivkkl	mthvdkaegt	tyrdelltki	idicsqsnyq	yitnfewyis
421	ilveltrleg	trhghliaaq	mldvairvka	irkfavsqms	alldsahlla	sstqrgnice
481	vlyaaawicg	efsehqlqeph	htleamlrpr	vttlpghiq	vyvqnvkly	asilqqkeqa
541	geaegaqavt	qlmvdrlpqf	vqsadlevqe	rascilqlvk	hiqklqakdv	pvaeevsalf
601	agelnpvapk	aqkkvpvpeg	ldldawinep	lsdseseder	pravfheeeq	rrpkhrpsea
661	deelarrrr	arkqeqannp	fyiksspspq	kryqdtpgve	hipvvqidls	vplkvpglpm
721	sdqyvkleee	rrhrqklekd	krkrkrkeke	kkgkrrhssl	ptesdediap	aqqvdivtee
781	mpenalpsde	ddkdpndpyr	aldidldkpl	adseklpiqk	hrntetsksp	ekdvpmvvekk
841	skkpkkkkk	hkekerdkek	kkekekksksp	kpkkkkhrke	keertkgkkk	skkqppgsee
901	aagepvqnga	peeeqlppes	sysllaensy	vkmtcdirgs	lqedsqvtva	ivlenrssi
961	lkgmelsvid	slnarmarpq	gssvhdgvpv	pfqlppgvsn	eaqyvftiqs	ivmaqkkggt
1021	lsfiakndeg	atheklftrl	hfscssylit	tpcysdafak	llesgdlsms	sikvdgirms
1081	fqnlakicf	hhhfsvverv	dscasmysrs	iqghhvcllv	kkvrtlsqst	gsavtpry

Immunogen: This affinity purified antibody was prepared from whole goat serum produced by repeated immunizations with a synthetic peptide corresponding aa 686-698 of Human AP3D1.

General References:

Ooi,C.E., Moreira,J.E., Dell'Angelica,E.C., Poy,G., Wassarman,D.A. and Bonifacino,J.S. (1997) Altered expression of a novel adaptin leads to defective pigment granule biogenesis in the *Drosophila* eye color mutant garnet. *EMBO J.* **16** (15), 4508-4518.

Simpson,F., Peden,A.A., Christopoulou,L. and Robinson,M.S. (1997) Characterization of the adaptor-related protein complex, AP-3. *J. Cell Biol.* **137** (4), 835-845.

Related Products:

#605-703-125	Peroxidase Conjugated Affinity Purified Anti-GOAT IgG (H&L) (DONKEY) MX Ch GP Ham Hs Ms Rb & Rt Serum Proteins
#605-732-125	IRDye800 Conjugated Affinity Purified Anti-GOAT IgG (H&L) (DONKEY) MX Ch GP Ham Hs Ms Rb & Rt Serum Proteins
#MB-070	Blocking Buffer for Fluorescent Western Blotting
#KIA-004	MaxTag™ Anti-GOAT IgG Kit for Immunoblotting

USDA Certification: All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation.

Note: This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information.