APCDD1 Protein, Human (466a.a, HEK293, Fc)

Cat. No.:	HY-P701326
Synonyms:	Adenomatosis polyposis coli down-regulated 1 protein; DRAPC1; HYPT1
Species:	Human
Source:	HEK293
Accession:	Q8J025 (L27-H492)
Gene ID:	147495
Molecular Weight:	82-110 kDa

PROPERTIES

AA Sequence	L L H P D S R S H P R S L E K S A W R A F K E S Q C H H M L K H L H N G A R I T V Q M P P T I E G H W V S T G C E V R S G P E F I T R S Y R F Y H N N T F K A Y Q F Y Y G S N R C T N P T Y T L I I R G K I R L R Q A S W I I R G G T E A D Y Q L H N V Q V I C H T E A V A E K L G Q Q V N R T C P G F L A D G G P W V Q D V A Y D L W R E E N G C E C T K A V N F A M H E L Q L I R V E K Q Y L H H N L D H L V E E L F L G D I H T D A T Q R M F Y R P S S Y Q P P L Q N A K N H D H A C I A C R I I Y R S D E H H P P I L P P K A D L T I G L H G E W V S Q R C E V R P E V L F L T R H F I F H D N N N T W E G H Y Y H Y S D P V C K H P T F S I Y A R G R Y S R G V L S S R V M G G T E F V F K V N H M K V T P M D A A T A S L L N V F N G N E C G A E G S W Q V G I Q Q D V T H T N G C V A L G I K L P H T E Y E I F K M E Q D A R G R Y L L F N G Q R P S D G S S P D R P E K R A T S Y Q M P L V Q C A S S S P R A E D L A E D S G S S L Y G R A P G R H
Biological Activity	Immobilized Human APCDD1, hFc Tag at 2 μg/mL (100 μl/well) on the plate. Dose response curve for Biotinylated Anti-APCDD1 Antibody, hFc Tag with the EC_{50} of 17.8 ng/mL determined by ELISA.
Appearance	Lyophilized powder
Formulation	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	APCDD1 protein operates as a negative regulator within the Wnt signaling pathway, exerting its inhibitory influence in a cell-autonomous manner and functioning upstream of beta-catenin. Its potential role in colorectal tumorigenesis suggests its significance in cellular processes associated with this condition. As a homodimer, APCDD1 interacts with LRP5 and WNT3A, indicating its involvement in complex interactions with Wnt and LRP proteins. These interactions collectively contribute to the intricate regulatory mechanisms that govern Wnt signaling, highlighting APCDD1's pivotal role in modulating this pathway.

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