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CCDC37 Rabbit pAb

Catalog # AP97828

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	Q494V2
Other Accession	Q494V2
Predicted	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	71117
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human CCDC37
Epitope Specificity	201-300/611
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	CCDC37 is a 611 amino acid protein that exists as two alternatively spliced isoforms. The gene encoding CCDC37 maps to human chromosome 3, which is made up of about 214 million bases encoding over 1,100 genes. Notably, there is a chemokine receptor gene cluster and a variety of human cancer related loci on chromosome 3. Particular regions of the chromosome 3 short arm are deleted in many types of cancer cells. Key tumor suppressing genes on chromosome 3 encode apoptosis mediator RASSF1, cell migration regulator HYAL1 and angiogenesis suppressor SEMA3B. Marfan Syndrome, porphyria, von Hippel-Lindau syndrome, osteogenesis imperfecta and Charcot-Marie-Tooth Disease are a few of the numerous genetic diseases associated with chromosome 3.

Additional Information

Gene ID	348807
Other Names	CCDC37; MIA1; CP100_HUMAN; CFAP100; Coiled-coil domain-containing protein 37; cilia and flagella associated protein 100; coiled-coil domain containing 37
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	CFAP100 (HGNC:26842)
Function	Microtubule-associated protein that promotes microtubule polymerization and regulates microtubule organization (PubMed:37192300). Plays a critical role in ensuring proper epidermal development and function by regulating mitosis in keratinocytes (PubMed:40593606). Maintains spindle pole integrity during keratinocyte division through the recruitment of the microtubule glutamylase TTLL13 to spindle poles, thereby enhancing localized microtubule glutamylation (PubMed:40593606). This modification stabilizes spindle microtubules, ensuring accurate spindle assembly, faithful chromosome segregation, and efficient mitotic progression (PubMed:40593606). May play a role in ciliary/flagellar motility by regulating the assembly and the activity of axonemal inner dynein arm.
Cellular Location	Cytoplasm, cytoskeleton, cilium axoneme {ECO:0000250|UniProtKB:A8I4E9}. Cytoplasm, cytoskeleton, spindle pole. Cytoplasm, cytoskeleton. Note=Localizes to microtubules

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.