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CCDC42 Rabbit pAb

Catalog # AP98086

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q96M95
Other Accession	Q96M95
Reactivity	Rat, Mouse
Predicted	Pig, Human, Rabbit, Dog, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	38019
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human CCDC42
Epitope Specificity	221-312/316
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the CFAP73 family.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The coiled-coil domain is a structural motif found in proteins that are involved in a diverse array of biological functions such as the regulation of gene expression, cell division, membrane fusion and drug extrusion and delivery. CCDC42 (coiled-coil domain containing 42) is a 316 amino acid protein encoded by a gene that maps to human chromosome 17p13.1. Encoding over 1,200 genes, chromosome 17 comprises over 2.5% of the human genome. Two key tumor suppressor genes are associated with chromosome 17, namely, p53 and BRCA1. Tumor suppressor p53 is necessary for maintenance of cellular genetic integrity by moderating cell fate through DNA repair versus cell death. Malfunction or loss of p53 expression is associated with malignant cell growth and Li-Fraumeni syndrome.

Additional Information

Gene ID	146849
Other Names	CCDC42A; A530001H01Rik; RGD1565925; CCD42_HUMAN; CCDC42; CCD42_MOUSE; coiled-coil domain containing 42
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
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	CCDC42 (HGNC:26528)
Function	Essential for male fertility. Required for sperm development.
Cellular Location	Cytoplasm, perinuclear region {ECO:0000250|UniProtKB:Q5SV66}. Cytoplasm, cytoskeleton {ECO:0000250|UniProtKB:Q5SV66}. Cell projection, cilium, flagellum {ECO:0000250|UniProtKB:Q5SV66}. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome {ECO:0000250|UniProtKB:Q5SV66} Note=Weakly expressed in the cytoplasm of round spermatids. In elongating spermatids, localizes to the manchette microtubules and the perinuclear ring. In the sperm flagellum, strongly expressed in the principle piece and also located to the connecting piece and weakly to the midpiece. Localizes to the centrosome in somatic cells {ECO:0000250|UniProtKB:Q5SV66}

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