

C6orf81 Rabbit pAb

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Catalog # AP55902

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q5T9G4
Predicted	Rat, Pig, Dog, Human, Mouse, Rabbit, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	38632
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human C6orf81
Epitope Specificity	101-200/340
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	Making up nearly 6% of the human genome, chromosome 6 contains around 1,200 genes within 170 million base pairs of sequence. Stickler syndrome, 21-hydroxylase deficiency and maple syrup urine disease are associated with genes on chromosome 6. A bipolar disorder susceptibility locus has been identified on the q arm of chromosome 6. The C6orf81 gene product has been provisionally designated C6orf81 pending further characterization.

Additional Information

Gene ID	221481
Other Names	Armadillo repeat-containing protein 12, ARMC12, C6orf81
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=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	ARMC12
Synonyms	C6orf81

Function	Essential for male fertility and sperm mitochondrial sheath formation (By similarity). Required for proper mitochondrial elongation and coiling along the flagellum during the formation of the mitochondrial sheath (By similarity). Facilitates the growth and aggressiveness of neuroblastoma cells (PubMed: 30026490). Increases the EZH2 activity and H3K27me3 levels in a RBBP4-dependent manner, and facilitates the enrichment of polycomb repressive complex 2 and H3K27me3 on gene promoters, resulting in transcriptional repression of tumor suppressors affecting the proliferation, invasion, and metastasis of tumor cells (PubMed: 30026490).
Cellular Location	Nucleus. Mitochondrion outer membrane {ECO:0000250 UniProtKB:Q80X86}; Peripheral membrane protein {ECO:0000250 UniProtKB:Q80X86}
Tissue Location	Expressed in testis (PubMed:33536340, PubMed:35534203). Highly expressed in the mid-piece of the elongated and late spermatids (PubMed:35534203). Expressed at higher levels in neuroblastoma tissues and cell lines, than those of normal dorsal ganglia (at protein level) (PubMed:30026490). Expressed in breast cancer, colon cancer, hepatocellular carcinoma, lung cancer, pancreas cancer, prostate cancer, renal cancer and gastric cancer, but not in their normal counterparts (PubMed:30026490)

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