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SPAC7 Rabbit pAb

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Catalog # AP59304

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q96KW9
Predicted	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	21466
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human SPAC7/C13ORF28
Epitope Specificity	101-195/195
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Secreted.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Comprising nearly 4% of human DNA, chromosome 13 contains around 114 million base pairs and 400 genes. Key tumor suppressor genes on chromosome 13 include the breast cancer susceptibility gene, BRCA2, and the RB1 (retinoblastoma) gene. RB1 encodes a crucial tumor suppressor protein which, when defective, leads to malignant growth in the retina and has been implicated in a variety of other cancers. The gene SLITRK1, which is associated with Tourette syndrome, is on chromosome 13. As with most chromosomes, polysomy of part or all of chromosome 13 is deleterious to development and decreases the odds of survival. Trisomy 13, also known as Patau syndrome, is quite deadly and the few who survive past one year suffer from permanent neurologic defects, difficulty eating and vulnerability to serious respiratory infections. The C13orf28 gene product has been provisionally designated C13orf28 pending further characterization.

Additional Information

Gene ID	122258
Other Names	Sperm acrosome-associated protein 7 {ECO:0000312|HGNC:HGNC:29575}, SPACA7 (HGNC:29575), C13orf28
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	SPACA7 (HGNC:29575)
Synonyms	C13orf28
Function	Involved in fertilization. Does not seem to play a direct role in sperm-egg binding or gamete fusion.
Cellular Location	Secreted {ECO:0000250|UniProtKB:Q9D2S4}. Cytoplasmic vesicle, secretory vesicle, acrosome. Cytoplasmic vesicle, secretory vesicle, acrosome lumen {ECO:0000250|UniProtKB:Q9D2S4}. Note=Localized in perinuclear pro-acrosomal granules in round spermatides. Localized between the inner and outer acrosomal membranes (matrix or lumen) in spermatozoa. Secreted during acrosome exocytosis {ECO:0000250|UniProtKB:Q9D2S4}
Tissue Location	Expressed in spermatozoa (at protein level) (PubMed:22495889).

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