

SPAC7 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP59304

Product Information

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| Application | WB, IHC-P, IHC-F, IF, ICC, E |
| Primary Accession | Q96KW9 |
| Reactivity | 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

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| 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=1:100-500,IF=1:100-500,ELISA=1:5000-10000 |
| Format | 0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce |

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| 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. |
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Protein Information

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| Name | SPACA7 (HGNC:29575) |
| Synonyms | C13orf28 |
| Function | Involved in fertilization. Seems not 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). |

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