

# SPOCD1 Rabbit pAb

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Catalog # AP56792

## Product Information

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| <b>Application</b>             | IHC-P, IHC-F, IF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Primary Accession</b>       | <a href="#">Q6ZMY3</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Predicted</b>               | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Host</b>                    | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Clonality</b>               | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Calculated MW</b>           | 130027                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Physical State</b>          | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Immunogen</b>               | KLH conjugated synthetic peptide derived from human SPOCD1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Epitope Specificity</b>     | 361-450/1216                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Isotype</b>                 | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Purity</b>                  | affinity purified by Protein A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Buffer</b>                  | 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Important Note</b>          | This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Background Descriptions</b> | SPOCD1 is a 1,216 amino acid protein that contains one SPOC domain and one TFIIS central domain. SPOCD1 exists as five alternatively spliced isoforms, with isoform 1 showing expression in lung. The gene that encodes SPOCD1 contains 25,630 bases and maps to human chromosome 1p35.2. Spanning about 260 million base pairs and making up 8% of the human genome, chromosome 1 is the largest human chromosome. There are about 3,000 genes on chromosome 1, and considering the great number of genes there are also a large number of diseases associated with chromosome 1. Stickler syndrome, Parkinsons, Gaucher disease and Usher syndrome are also associated with chromosome 1 and aberrations in chromosome 1 are found in a variety of cancers including head and neck cancer, malignant melanoma and multiple myeloma. |

## Additional Information

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| <b>Gene ID</b>     | 90853                                                                                                                                                                                           |
| <b>Other Names</b> | SPOC domain-containing protein 1, SPOCD1<br>{ECO:0000303   PubMed:38359823, ECO:0000312   HGNC:HGNC:26338}                                                                                      |
| <b>Dilution</b>    | IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:500<br>0-10000                                                                                                            |
| <b>Storage</b>     | 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

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| <b>Name</b>              | SPOCD1 {ECO:0000303   PubMed:38359823, ECO:0000312   HGNC:HGNC:26338}                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Function</b>          | Protein adapter that acts as an essential executor of PIWIL4- piRNA pathway directed transposon DNA methylation and silencing in the male embryonic germ cells (PubMed: <a href="#">38359823</a> ). Recruited to young transposons, which are specifically marked with histone H3 trimethylated at both 'Lys-4' and 'Lys-9' (H3K4me3K9me3), via its association with SPIN1 chromatin reader, and associates with the de novo DNA methylation machinery and repressive chromatin remodeling complexes (By similarity). Following this, PIWIL4 engages with nascent transposable element transcript to direct piRNA-directed DNA methylation. Not required for piRNA biosynthesis (By similarity). |
| <b>Cellular Location</b> | Nucleus {ECO:0000250   UniProtKB:B1ASB6}. Chromosome {ECO:0000250   UniProtKB:B1ASB6}                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

## Background

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