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# SCLT1 Rabbit pAb

Catalog # AP97009

## Product Information

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| **Application** | WB, IHC-P, IHC-F, IF |
| **Primary Accession** | Q96NL6 |
| **Other Accession** | Q96NL6 |
| **Reactivity** | Human, Mouse |
| **Predicted** | Rat, Pig, Rabbit, Dog, Horse, Sheep |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Calculated MW** | 80910 |
| **Physical State** | Liquid |
| **Immunogen** | KLH conjugated synthetic peptide derived from human SCLT1 |
| **Epitope Specificity** | 501-600/688 |
| **Isotype** | IgG |
| **Purity** | affinity purified by Protein A |
| **Buffer** | 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. |
| **SUBUNIT** | Interacts with SCN10A and clathrin. Identified in a complex containing SCN10A, clathrin and SCLT1 (By similarity). |
| **Important Note** | This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. |
| **Background Descriptions** | SCLT1 (sodium channel and clathrin linker 1), also known as CAP1A or hCAP-1A, is a 688 amino acid cytoplasmic protein that acts as a linker between the voltage-gated sodium channel, Na+ CP type X? and clathrin. SCLT1 is abundantly expressed in DRG (dorsal root ganglia) neurons and colocalizes with Na+ CP type X? SCLT1 regulates Na+ CP type X?channel activity by promoting channel internalization. SCLT1 exists as four alternatively spliced isoforms and is encoded by a gene located on human chromosome 4, which encodes nearly 6% of the human genome and has the largest gene deserts (regions of the genome with no protein encoding genes) of all human chromosomes. Defects in some of the genes located on chromosome 4 are associated with Huntington's disease, Ellis-van Creveld syndrome, methylmalonic acidemia and polycystic kidney disease. |

## Additional Information

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| **Gene ID** | 132320 |
| **Other Names** | CAP-1A; CAP1A; SCLT1_HUMAN; SCLT1; Sodium channel-associated protein 1; SAP1; sodium channel and clathrin linker 1 |
| **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

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| **Name** | SCLT1 |
| **Synonyms** | SAP1 |
| **Function** | Adapter protein that links SCN10A to clathrin. Regulates SCN10A channel activity, possibly by promoting channel internalization (By similarity). |
| **Cellular Location** | Cytoplasm, cytoskeleton, microtubule organizing center, centrosome, centriole Note=Localizes to the distal appendage region of the centriole, which anchors the mother centriole to the plasma membrane |

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