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# SNRPD3 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AW5549

## Product Information

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|---|---|
| **Application** | FC, IHC-P, WB |
| **Primary Accession** | P62318 |
| **Reactivity** | Human |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Calculated MW** | 13916 |
| **Isotype** | Rabbit IgG |
| **Antigen Source** | HUMAN |

## Additional Information

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|---|---|
| **Gene ID** | 6634 |
| **Antigen Region** | 99-126 |
| **Other Names** | Small nuclear ribonucleoprotein Sm D3, Sm-D3, snRNP core protein D3, SNRPD3 |
| **Dilution** | FC~~1:10~50 IHC-P~~1:100~500 WB~~1:1000 |
| **Target/Specificity** | This SNRPD3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 99-126 amino acids from the C-terminal region of human SNRPD3. |
| **Format** | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification. |
| **Storage** | Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles. |
| **Precautions** | SNRPD3 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures. |

## Protein Information

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| **Name** | SNRPD3 |
| **Function** | Plays a role in pre-mRNA splicing as a core component of the spliceosomal U1, U2, U4 and U5 small nuclear ribonucleoproteins (snRNPs), the building blocks of the spliceosome (PubMed:11991638, PubMed:18984161, |

PubMed:19325628, PubMed:25555158, PubMed:26912367, PubMed:28076346, PubMed:28502770, PubMed:28781166, PubMed:32494006). Component of both the pre-catalytic spliceosome B complex and activated spliceosome C complexes (PubMed:11991638, PubMed:28076346, PubMed:28502770, PubMed:28781166). As a component of the minor spliceosome, involved in the splicing of U12-type introns in pre-mRNAs (PubMed:15146077, PubMed:33509932). As part of the U7 snRNP it is involved in histone pre-mRNA 3'-end processing (By similarity).

**Cellular Location**

Cytoplasm, cytosol. Nucleus. Note=SMN- mediated assembly into core snRNPs occurs in the cytosol before SMN- mediated transport to the nucleus to be included in spliceosomes

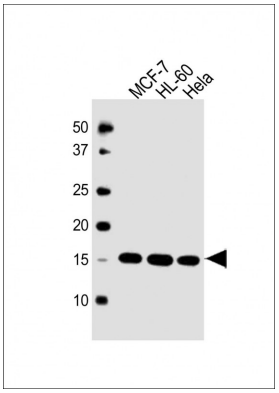
## Background

The protein belongs to the small nuclear ribonucleoprotein core protein family. It is required for pre-mRNA splicing and small nuclear ribonucleoprotein biogenesis.

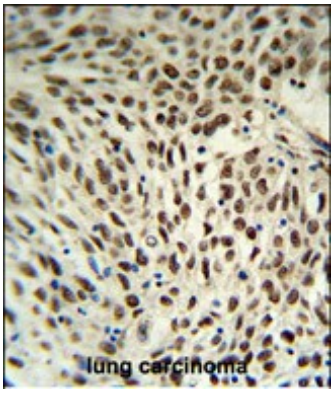
## References

Gonsalvez,G.B., et.al., J. Cell Biol. 178 (5), 733-740 (2007)
Ma,Y., et.al., Structure 13 (6), 883-892 (2005)
Mahler,M., et.al., Arthritis Res. Ther. 7 (1), R19-R29 (2005)

## Images

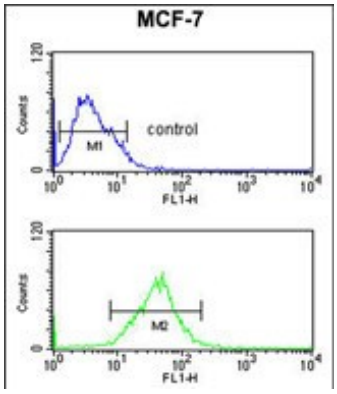



All lanes : Anti-SNRPD3 Antibody (C-term) at 1:1000 dilution Lane 1: MCF-7 whole cell lysate Lane 2: HL-60 whole cell lysate Lane 3: Hela whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 14 kDa Blocking/Dilution buffer: 5% NFDM/TBST.




SNRPD3 Antibody (C-term) (Cat. #AW5549) IHC analysis in formalin fixed and paraffin embedded human lung carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the SNRPD3 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

SNRPD3 Antibody (C-term) (Cat. #AW5549) flow cytometric analysis of MCF-7 cells (bottom histogram) compared to a negative control cell (top histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.




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