

## SPN Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP13717A

### Product Information

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|-------------------|--|
| Application       | WB, E  |
| Primary Accession | <a href="#">P16150</a>                                       |
| Other Accession   | <a href="#">NP_001025459.1</a> , <a href="#">NP_003114.1</a> |
| Reactivity        | Human  |
| Host              | Rabbit   |
| Clonality         | Polyclonal   |
| Isotype           | Rabbit IgG   |
| Clone Names       | RB33681  |
| Calculated MW     | 40322  |
| Antigen Region    | 35-64  |

### Additional Information

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|--------------------|---|
| Gene ID            | 6693  |
| Other Names        | Leukosialin, Galactoglycoprotein, GALGP, Leukocyte sialoglycoprotein, Sialophorin, CD43, SPN, CD43  |
| Target/Specificity | This SPN antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 35-64 amino acids from the N-terminal region of human SPN.            |
| Dilution           | WB~~1:1000 E~~Use at an assay dependent concentration.  |
| Format             | Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. 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        | SPN Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.   |

### Protein Information

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|          |   |
|----------|---|
| Name     | SPN   |
| Synonyms | CD43  |
| Function | Predominant cell surface sialoprotein of leukocytes which regulates |

multiple T-cell functions, including T-cell activation, proliferation, differentiation, trafficking and migration. Positively regulates T-cell trafficking to lymph-nodes via its association with ERM proteins (EZR, RDX and MSN) (By similarity). Negatively regulates Th2 cell differentiation and predisposes the differentiation of T-cells towards a Th1 lineage commitment. Promotes the expression of IFN-gamma by T-cells during T-cell receptor (TCR) activation of naive cells and induces the expression of IFN-gamma by CD4(+) T-cells and to a lesser extent by CD8(+) T-cells (PubMed:[18036228](#)). Plays a role in preparing T-cells for cytokine sensing and differentiation into effector cells by inducing the expression of cytokine receptors IFNGR and IL4R, promoting IFNGR and IL4R signaling and by mediating the clustering of IFNGR with TCR (PubMed:[24328034](#)). Acts as a major E-selectin ligand responsible for Th17 cell rolling on activated vasculature and recruitment during inflammation. Mediates Th17 cells, but not Th1 cells, adhesion to E- selectin. Acts as a T-cell counter-receptor for SIGLEC1 (By similarity).

## Cellular Location

Membrane; Single-pass type I membrane protein. Cell projection, microvillus {ECO:0000250|UniProtKB:P13838}. Cell projection, uropodium {ECO:0000250|UniProtKB:P15702}. Note=Localizes to the uropodium and microvilli via its interaction with ERM proteins (EZR, RDX and MSN) {ECO:0000250|UniProtKB:P13838, ECO:0000250|UniProtKB:P15702}

## Tissue Location

Cell surface of thymocytes, T-lymphocytes, neutrophils, plasma cells and myelomas

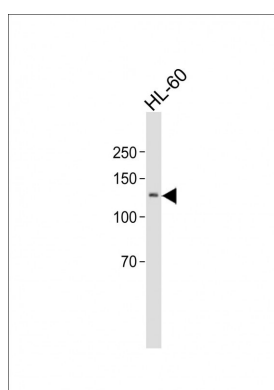
## Background

Sialophorin (leukosialin) is a major sialoglycoprotein on the surface of human T lymphocytes, monocytes, granulocytes, and some B lymphocytes, which appears to be important for immune function and may be part of a physiologic ligand-receptor complex involved in T-cell activation.

## References

Urano-Tashiro, Y., et al. Infect. Immun. 76(10):4686-4691(2008)  
Mambole, A., et al. J. Biol. Chem. 283(35):23627-23635(2008)  
Seethala, R.R., et al. Appl. Immunohistochem. Mol. Morphol. 16(2):165-172(2008)  
Khunkaewla, P., et al. Mol. Immunol. 45(6):1703-1711(2008)  
Rawal, A., et al. Arch. Pathol. Lab. Med. 131(11):1673-1678(2007)

## Images



All lanes: Anti-SPN Antibody (N-term) at 1:1000 dilution + HL-60 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary: Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution. Observed band size: 130 KDa Blocking/Dilution buffer: 5% NFDN/TBST.