

# Anti-SKAP55 Picoband Antibody

Catalog # ABO12576

## Product Information

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|--------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| <b>Application</b>       | WB, IHC-P                                                                                                                       |
| <b>Primary Accession</b> | <a href="#">Q86WV1</a>                                                                                                          |
| <b>Host</b>              | Rabbit                                                                                                                          |
| <b>Reactivity</b>        | Human, Rat                                                                                                                      |
| <b>Clonality</b>         | Polyclonal                                                                                                                      |
| <b>Format</b>            | Lyophilized                                                                                                                     |
| <b>Description</b>       | Rabbit IgG polyclonal antibody for Src kinase-associated phosphoprotein 1(SKAP1) detection. Tested with WB, IHC-P in Human;Rat. |
| <b>Reconstitution</b>    | Add 0.2ml of distilled water will yield a concentration of 500ug/ml.                                                            |

## Additional Information

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| <b>Gene ID</b>                  | 8631                                                                                                                                                                                                 |
| <b>Other Names</b>              | Src kinase-associated phosphoprotein 1, Src family-associated phosphoprotein 1, Src kinase-associated phosphoprotein of 55 kDa, SKAP-55, pp55, SKAP1, SCAP1, SKAP55                                  |
| <b>Calculated MW</b>            | 41432                                                                                                                                                                                                |
| <b>Application Details</b>      | Immunohistochemistry(Paraffin-embedded Section), 0.5-1 $\mu$ g/ml, Rat, Human, By Heat<br><br>Western blot, 0.1-0.5 $\mu$ g/ml, Human                                                                |
| <b>Subcellular Localization</b> | Cytoplasm. Nucleus. Cell membrane. Upon T-cell stimulation, translocates to lipid rafts at the cell membrane.                                                                                        |
| <b>Tissue Specificity</b>       | Highly expressed in thymocytes and peripheral blood lymphocytes. Also expressed in spleen cells and testis. Present in T-cells (at protein level). .                                                 |
| <b>Source</b>                   | Eukaryota                                                                                                                                                                                            |
| <b>Protein Name</b>             | Src kinase-associated phosphoprotein 1                                                                                                                                                               |
| <b>Contents</b>                 | Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05mg NaN <sub>3</sub> .                                                                                           |
| <b>Immunogen</b>                | A synthetic peptide corresponding to a sequence in the middle region of human SKAP55 (163-189aa RMAPHLRRDSKKESCFELTSQDRRSYE), different from the related mouse and rat sequences by two amino acids. |
| <b>Purification</b>             | Immunogen affinity purified.                                                                                                                                                                         |

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| <b>Cross Reactivity</b> | No cross reactivity with other proteins.                                                                                                                                           |
| <b>Storage</b>          | At -20° C for one year. After reconstitution, at 4° C for one month. It can also be aliquotted and stored frozen at -20° C for a longer time. Avoid repeated freezing and thawing. |

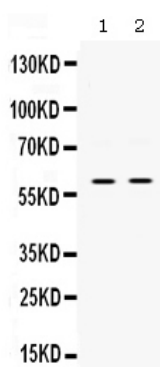
## Protein Information

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|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Name</b>              | SKAP1                                                                                                                                                                                                                                                                                                                                 |
| <b>Synonyms</b>          | SCAP1, SKAP55                                                                                                                                                                                                                                                                                                                         |
| <b>Function</b>          | Positively regulates T-cell receptor signaling by enhancing the MAP kinase pathway. Required for optimal conjugation between T- cells and antigen-presenting cells by promoting the clustering of integrin ITGAL on the surface of T-cells. May be involved in high affinity immunoglobulin epsilon receptor signaling in mast cells. |
| <b>Cellular Location</b> | Cytoplasm. Nucleus. Cell membrane. Note=Upon T- cell stimulation, translocates to lipid rafts at the cell membrane                                                                                                                                                                                                                    |
| <b>Tissue Location</b>   | Highly expressed in thymocytes and peripheral blood lymphocytes. Also expressed in spleen cells and testis. Present in T- cells (at protein level).                                                                                                                                                                                   |

## Background

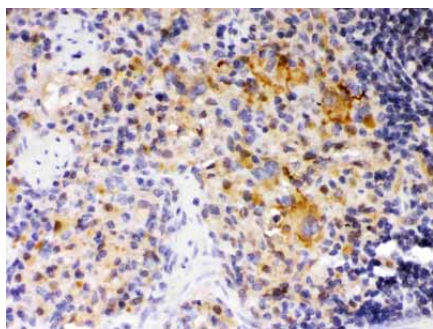
Src kinase-associated phosphoprotein 1 is an adapter protein that in humans is encoded by the SKAP1 gene. This gene encodes a T cell adaptor protein, a class of intracellular molecules with modular domains capable of recruiting additional proteins but that exhibit no intrinsic enzymatic activity. The encoded protein contains a unique N-terminal region followed by a PH domain and C-terminal SH3 domain. Along with the adhesion and degranulation-promoting adaptor protein, the encoded protein plays a critical role in inside-out signaling by coupling T-cell antigen receptor stimulation to the activation of integrins.

## Images



Western blot analysis of SKAP55 expression in PANC whole cell lysates (lane 1) and JURKAT whole cell lysates (lane 2). SKAP55 at 60KD was detected using rabbit anti-SKAP55 Antigen Affinity purified polyclonal antibody (Catalog # ABO12576) at 0.5 µg/mL. The blot was developed using chemiluminescence (ECL) method.

SKAP55 was detected in paraffin-embedded sections of rat spleen tissues using rabbit anti-SKAP55 Antigen Affinity purified polyclonal antibody (Catalog # ABO12576) at 1 µg/mL. The immunohistochemical section was developed using SABC method.



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