

**SKAP55 Polyclonal Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP55250****Specification****SKAP55 Polyclonal Antibody - Product Information**

|                                  |  |
|----------------------------------|--|
| Application                      | IHC-P, IHC-F, IF, ICC, E   |
| Primary Accession                | <a href="#">Q86WV1</a>   |
| Reactivity                       | Rat, Pig, Dog  |
| Host                             | Rabbit   |
| Clonality                        | Polyclonal   |
| Calculated MW                    | 41 KDa   |
| Physical State                   | Liquid   |
| Immunogen                        | KLH conjugated synthetic peptide derived from human SKAP55   |
| Epitope Specificity              | 101-200/359  |
| Isotype                          | IgG  |
| <b>Purity</b>                    | affinity purified by Protein A   |
| Buffer                           | 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.  |
| SUBCELLULAR LOCATION             | Cytoplasm. Nucleus. Cell membrane. Upon T-cell stimulation, translocates to lipid rafts at the cell membrane.  |
| SIMILARITY                       | Belongs to the SKAP family. Contains 1 PH domain. Contains 1 SH3 domain.   |
| Post-translational modifications | Phosphorylated on tyrosines.<br>Phosphorylation by FYN on Tyr-271 is required for GRB2 interaction.<br>Phosphorylation by FYN on Tyr-295 abolishes interaction with FYB. Tyr-232 is dephosphorylated by PTPRC. |
| Important Note                   | This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.  |

**Background Descriptions**

Fyb (Fyn binding protein) and the anchoring proteins SKAP55 and SKAP55-R (SKAP55-related protein) associate with the tyrosine kinase p59fyn. SKAP55 and SKAP55-R bind to Fyb through their SH3 domains and function as substrates for p59Fyn in resting T cells. SKAP55 contains an N-terminal pleckstrin homology domain and a C-terminal SH3 domain binding motif of adjacent arginine and lysine residues followed by tandem tyrosines. SKAP55-R, similar in overall structure to SKAP55, contains a coiled-coil N-terminal domain. SKAP55 associates with SLAP-130, another component of the Fyn complex, which plays a role in the regulation of signaling events initiated by lymphocyte antigen receptors leading up to T cell activation. The human SKAP55 gene maps to chromosome 17q21.32 and encodes a 359 amino acid protein.

**SKAP55 Polyclonal Antibody - Additional Information**

## Gene ID 8631

### Other Names

Src kinase-associated phosphoprotein 1, Src family-associated phosphoprotein 1, Src kinase-associated phosphoprotein of 55 kDa, SKAP-55, pp55, SKAP1, SCAP1, SKAP55

### Target/Specificity

Highly expressed in thymocytes and peripheral blood lymphocytes. Also expressed in spleen cells and testis. Present in T-cells (at protein level).

### Dilution

<span class = "dilution\_IHC-P">IHC-P~~N/A</span><br /><span class = "dilution\_IHC-F">IHC-F~~N/A</span><br /><span class = "dilution\_IF">IF~~1:50~200</span><br /><span class = "dilution\_ICC">ICC~~N/A</span><br /><span class = "dilution\_E">E~~N/A</span>

### 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.

## SKAP55 Polyclonal Antibody - Protein Information

**Name** SKAP1

**Synonyms** SCAP1, SKAP55

### Function

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.

### Cellular Location

Cytoplasm. Nucleus. Cell membrane. Note=Upon T- cell stimulation, translocates to lipid rafts at the cell membrane

### Tissue Location

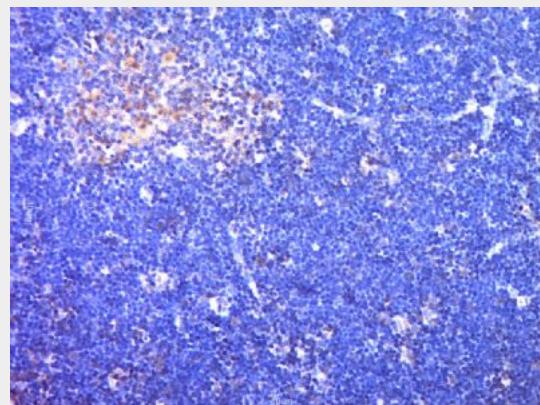
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## SKAP55 Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## SKAP55 Polyclonal Antibody - Images



Paraformaldehyde-fixed, paraffin embedded (Rat thymus); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (SKAP55 ) Polyclonal Antibody, Unconjugated (bs-13702R) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.