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Rabbit Anti-SKAP55 antibody

SL13702R

Product Name:	SKAP55
Chinese Name:	SKAP55蛋白抗体
Alias:	pp55; SCAP 1; SCAP1; SKAP 1; SKAP 55; SKAP-55; Skap1; SKAP1_HUMAN; SKAP55 adaptor protein; SRC family associated phosphoprotein 1; Src family-associated phosphoprotein 1; Src kinase associated phosphoprotein 1; SRC kinase associated phosphoprotein 55 kD; Src kinase associated phosphoprotein of 55 kDa; Src kinase-associated phosphoprotein 1; Src kinase-associated phosphoprotein of 55 kDa.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Horse,Rabbit,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	41kDa
Cellular localization:	The nucleuscytoplasmicThe cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human SKAP55:101-200/359
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. 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.
PubMed:	PubMed
Product Detail:	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.

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.

Subcellular Location:
Cytoplasm. Nucleus. Cell membrane. Upon T-cell stimulation, translocates to lipid rafts at the cell membrane.

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

Post-translational modifications:
Phosphorylated on tyrosines. Phosphorylation by FYN on Tyr-271 is required for GRB2 interaction. Phosphorylation by FYN on Tyr-295 abolishes interaction with FYB. Tyr-232 is dephosphorylated by PTPRC.

Similarity:
Belongs to the SKAP family.
Contains 1 PH domain.
Contains 1 SH3 domain.

SWISS:
Q86WV1

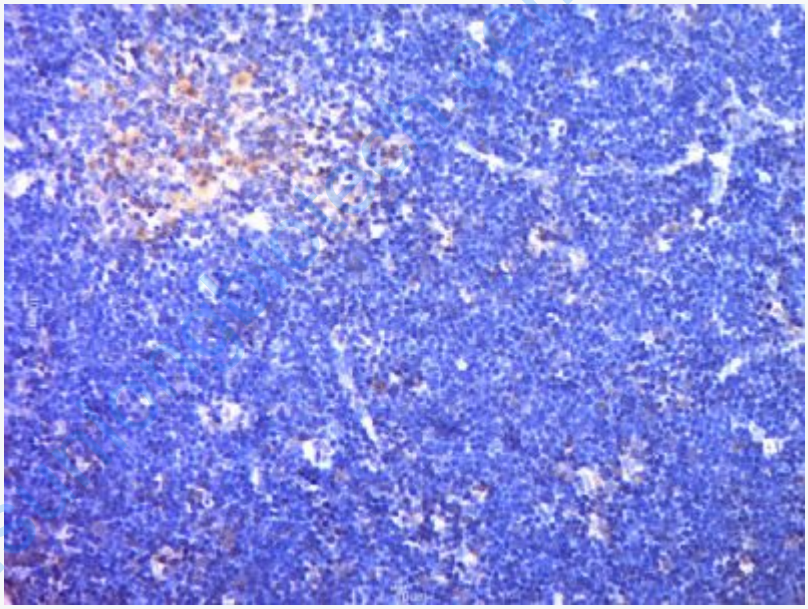
Gene ID:
8631

Database links:

Entrez Gene: 8631 Human

Entrez Gene: 286975 Rat

Omim: 604969 Human

	SwissProt: Q86WV1 Human SwissProt: Q4V7G1 Rat Unigene: 316931 Human Unigene: 35285 Rat **Important Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Picture:	 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 (SL13702R) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.