

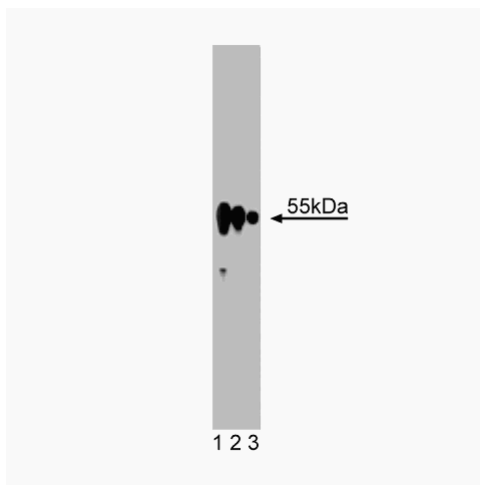
## Technical Data Sheet

**Purified Mouse Anti-SKAP55****Product Information**

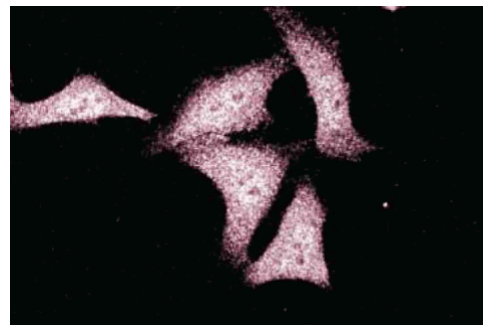
<b>Material Number:</b>	611236
<b>Size:</b>	50 µg
<b>Concentration:</b>	250 µg/ml
<b>Clone:</b>	35/SKAP55
<b>Immunogen:</b>	Human SKAP55 aa. 154-353
<b>Isotype:</b>	Mouse IgG1
<b>Reactivity:</b>	QC Testing: Rat Tested in Development: Human
<b>Target MW:</b>	55 kDa
<b>Storage Buffer:</b>	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

**Description**

Immediately following T cell receptor (TcR) ligation, cytoplasmic protein-tyrosine kinases (PTKs) are activated, resulting in the phosphorylation of intracellular and transmembrane proteins. p56[lck] and p59[fyn] are two Src family PTKs activated by TcR ligation. Following activation, Fyn interacts with several tyrosine-phosphorylated proteins, including SKAP55 (Src kinase-associated phosphoprotein of 55 kDa). SKAP55, which selectively binds Src kinase SH2 domains, contains a pleckstrin homology (PH) domain, a C-terminal Src homology 3 (SH3) domain, and multiple tyrosine phosphorylation sites. In addition, SKAP55 directly binds to FYB/SLAP-130, a novel substrate of TcR-stimulated protein tyrosine kinases. Like SLAP-130, SKAP55 is expressed exclusively in mononuclear cells, with preferential expression in T lymphocytes where it is constitutively phosphorylated in resting cells. A SKAP55 homolog, SKAP-HOM, has been identified which also interacts with SLAP-130, exhibits ubiquitous expression, and is phosphorylated only following T cell activation. Therefore, the Fyn-associated protein, SKAP55, along with SLAP-130, are components of a Fyn-mediated signaling cascade in T cells.



**Western blot analysis of SKAP55 on rat thymus lysate.**  
Lane 1: 1:1000, lane 2: 1:2000, lane 3: 1:4000 dilution of SKAP55.



**HeLa**

**Preparation and Storage**

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography. Store undiluted at -20° C.

**BD Biosciences**

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## Application Notes

### Application

Western blot	Routinely Tested
Immunofluorescence	Tested During Development

### Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to [www.bdbiosciences.com/pharmingen/protocols](http://www.bdbiosciences.com/pharmingen/protocols) for technical protocols.
3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

### References

- Liu J, Kang H, Raab M, da Silva AJ, Kraeft SK, Rudd CE. FYB (FYN binding protein) serves as a binding partner for lymphoid protein and FYN kinase substrate SKAP55 and a SKAP55-related protein in T cells. *Proc Natl Acad Sci U S A*. 1998; 95(15):8779-8784.(Biology)
- Marie-Cardine A, Bruyns E, Eckerskorn C, Kirchgessner H, Meuer SC, Schraven B. Molecular cloning of SKAP55, a novel protein that associates with the protein tyrosine kinase p59fyn in human T-lymphocytes. *J Biol Chem*. 1997; 272(26):16077-16080.(Biology)
- Marie-Cardine A, Verhagen AM, Eckerskorn C, Schraven B. SKAP-HOM, a novel adaptor protein homologous to the FYN-associated protein SKAP55. *FEBS Lett*. 1998; 435(1):55-60.(Biology)
- Wu L, Fu J, Shen SH. SKAP55 coupled with CD45 positively regulates T-cell receptor-mediated gene transcription. *Mol Biol Cell*. 2002; 22(8):2673-2686. (Clone-specific: Immunoprecipitation, Western blot)
- Wu L, Yu Z, Shen SH. SKAP55 recruits to lipid rafts and positively mediates the MAPK pathway upon T cell receptor activation. *J Biol Chem*. 2002; 277(43):40420-40427.(Clone-specific: Immunoprecipitation, Western blot)