

# ADAP Antibody

Catalog # ASC10560

## Product Information

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<b>Application</b>	WB, IF, ICC, E
<b>Primary Accession</b>	<a href="#">O15117</a>
<b>Other Accession</b>	<a href="#">NP_001456</a> , <a href="#">42476118</a>
<b>Reactivity</b>	Human
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG
<b>Calculated MW</b>	85387
<b>Concentration (mg/ml)</b>	1 mg/mL
<b>Conjugate</b>	Unconjugated
<b>Application Notes</b>	ADAP antibody can be used for detection of ADAP by Western blot at 0.5 - 1 $\mu$ g/mL. Antibody can also be used for immunocytochemistry starting at 10 $\mu$ g/mL. For immunofluorescence start at 20 $\mu$ g/mL.

## Additional Information

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<b>Gene ID</b>	2533
<b>Other Names</b>	FYN-binding protein, Adhesion and degranulation promoting adaptor protein, ADAP, FYB-120/130, p120/p130, FYN-T-binding protein, SLAP-130, SLP-76-associated phosphoprotein, FYB, SLAP130
<b>Target/Specificity</b>	FYB;
<b>Reconstitution &amp; Storage</b>	ADAP antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
<b>Precautions</b>	ADAP Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	FYB1 ( <a href="#">HGNC:4036</a> )
<b>Synonyms</b>	FYB, SLAP130
<b>Function</b>	Acts as an adapter protein of the FYN and LCP2 signaling cascades in T-cells (By similarity). May play a role in linking T-cell signaling to remodeling of the actin cytoskeleton (PubMed: <a href="#">10747096</a> , PubMed: <a href="#">16980616</a> ). Modulates the expression of IL2 (By similarity). Involved in platelet activation (By similarity). Prevents the degradation of SKAP1 and SKAP2 (PubMed: <a href="#">15849195</a> ). May be involved in high affinity immunoglobulin epsilon receptor signaling in mast

cells (By similarity).

#### Cellular Location

Cytoplasm. Nucleus {ECO:0000255 | PROSITE-ProRule:PRU00768}. Cell junction {ECO:0000250 | UniProtKB:O35601}. Note=Colocalizes with TMEM47 at cell-cell contacts in podocytes. {ECO:0000250 | UniProtKB:O35601}

#### Tissue Location

Expressed in hematopoietic tissues such as myeloid and T-cells, spleen and thymus. Not expressed in B-cells, nor in non- lymphoid tissues

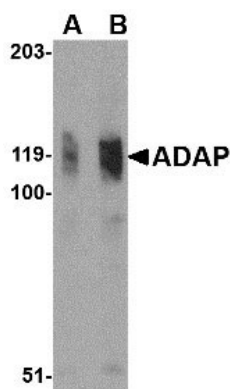
## Background

**ADAP Antibody:** The adhesion and degranulation adaptor protein (ADAP) was initially identified as a molecular adapter that couples T cell receptor (TCR) stimulation to the avidity of integrins governing T cell adhesion. TCR stimulation promotes the formation of a multi-protein complex containing CARMA1, MALT1, and BCL-10, which through the association of ADAP, ultimately activates the NF- $\kappa$ B family of transcription factors. More recent experiments have shown that ADAP controls optimal T cell proliferation, cytokine production, and expression of the Bcl-2 family member Bcl-x(L), suggesting that ADAP regulates T cell activation by promoting antigen-dependent T cell-antigen presenting cell (APC) activation. At least three isoforms of ADAP are known to exist.

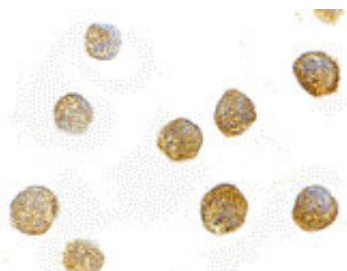
## References

Griffiths EK, Krawczyk C, Kong YY, et al. Positive regulation of T cell activation and integrin adhesion by the adapter Fyb/Slap. *Science*2001; 293:2260-3.  
Rawlings DJ, Sommer K, and Moreno-Garcia ME. The CARMA1 signalosome links the signalling machinery of adaptive and innate immunity in lymphocytes. *Nat. Rev. Immunol.*2006; 6:799-812.  
Medeiros RB, Burbach BJ, Mueller KL, et al. Regulation of NF-kappaB activation in T cells via association of the adapter proteins ADAP and CARMA1. *Science*2007; 316:754-8.  
Mueller KL, Thomas MS, Burbach BJ, et al. Adhesion and degranulation-promoting adapter protein (ADAP) positively regulates T cell sensitivity to antigen and T cell survival. *J. Immunol.*2007; 179:3559-69.

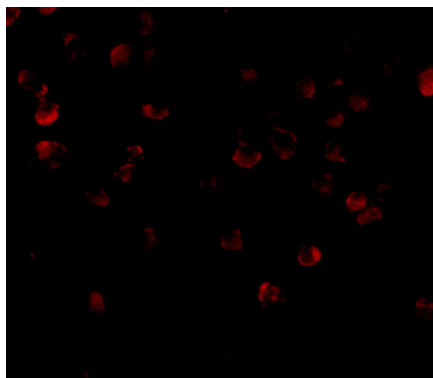
## Images



Western blot analysis of ADAP in K562 cell lysate with ADAP antibody at (A) 0.5 and (B) 1  $\mu$ g/mL.



Immunocytochemistry of ADAP in K562 cells with ADAP antibody at 10  $\mu$ g/mL.



Immunofluorescence of ADAP in K562 cells with ADAP antibody at 20  $\mu\text{g/mL}$ .

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.