

ADAP Antibody

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H M	Endogenous	120, 130	Rabbit	#O15117	2533

Product Usage Information**Application**

Western Blotting

Dilution

1:1000

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

ADAP Antibody recognizes endogenous levels of total ADAP protein.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro731 of human ADAP protein. Antibodies are purified by protein A and peptide affinity chromatography.

Background

ADAP (adhesion and degranulation-promoting adaptor protein/SLAP-130/Fyb) is an SH3 domain-containing adaptor protein expressed by T cells, NK cells, and myeloid cells (1,2). There are two isoforms of ADAP with predicted molecular weights of 85 kDa and 90 kDa, but observed molecular weights of 120 kDa and 130 kDa (1-3). ADAP was identified as an adaptor protein that interacts with SLP-76 following T cell receptor (TCR) stimulation and was subsequently found to be important for several aspects of T cell activation (1,2). For example, ADAP is required for integrin-dependent clustering, signaling, and adhesion (4,5). In addition, ADAP interacts with CARMA1 and facilitates assembly of the CARMA1-Bcl10-MALT1 complex important for NF-κB activation downstream of TCR activation (6). Finally, following binding of a T cell to an antigen presenting cell, ADAP forms a ring at the immunological synapse that recruits dynein to enable microtubule-organizing center polarization (7).

Background References

1. Musci, M.A. et al. (1997) *J Biol Chem* 272, 11674-7.
2. Schraven, B. et al. (1997) *Immunol Lett* 57, 165-9.
3. Veale, M. et al. (1999) *J Biol Chem* 274, 28427-35.
4. Griffiths, E.K. et al. (2001) *Science* 293, 2260-3.
5. Peterson, E.J. et al. (2001) *Science* 293, 2263-5.
6. Medeiros, R.B. et al. (2007) *Science* 316, 754-8.
7. Combs, J. et al. (2006) *Proc Natl Acad Sci U S A* 103, 14883-8.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting

Cross-Reactivity Key

H: Human **M:** Mouse

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