

SWAP70 (D5O6A) Rabbit mAb

Orders: 877-616-CELL (2355)
orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H M R	Endogenous	70, 74	Rabbit IgG	#Q9UH65	23075

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, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

SWAP70 (D5O6A) Rabbit mAb recognizes endogenous levels of total SWAP70 protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Asp536 of human SWAP70 protein.

Background

SWAP70 is a Rac family guanine nucleotide exchange factor (GEF) (1). It is highly expressed by activated B cells. Following B cell stimulation, SWAP70 has been observed to translocate from the cytoplasm to the nucleus, where it plays a role in class switching, as well as to the membrane, where it associates with the B cell receptor (2,3). SWAP70 also plays a role in migration of B cells and other immune cell types including dendritic cells, eosinophils, and mast cells (4-7). Mice deficient in both SWAP70 and a related protein, DEF6, develop lupus-like autoimmunity due to misregulation of IRF4 in B cells and T cells leading to increased IL21 production and responsiveness (8).

Background References

1. Shinohara, M. et al. (2002) *Nature* 416, 759-63.
2. Borggreffe, T. et al. (1998) *J Biol Chem* 273, 17025-35.
3. Masat, L. et al. (2000) *Proc Natl Acad Sci U S A* 97, 2180-4.
4. Sivalenka, R.R. and Jessberger, R. (2004) *Mol Cell Biol* 24, 10277-88.
5. Pearce, G. et al. (2006) *Nat Immunol* 7, 827-34.
6. Ocaña-Morgner, C. et al. (2011) *J Immunol* 186, 5345-55.
7. Bahaie, N.S. et al. (2012) *J Immunol* 188, 1479-90.
8. Biswas, P.S. et al. (2012) *J Exp Med* 209, 581-96.

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 BSA, 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 **R:** Rat

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