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SWAP70 (D5O6A) Rabbit mAb**Cell Signaling**
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For Research Use Only. Not for Use in Diagnostic Procedures.

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

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| 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, DEFB6, 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 | <ol style="list-style-type: none"> Shinohara, M. et al. (2002) <i>Nature</i> 416, 759-63. Borggreve, T. et al. (1998) <i>J Biol Chem</i> 273, 17025-35. Masat, L. et al. (2000) <i>Proc Natl Acad Sci U S A</i> 97, 2180-4. Sivalenka, R.R. and Jessberger, R. (2004) <i>Mol Cell Biol</i> 24, 10277-88. Pearce, G. et al. (2006) <i>Nat Immunol</i> 7, 827-34. Ocaña-Morgner, C. et al. (2011) <i>J Immunol</i> 186, 5345-55. Bahaie, N.S. et al. (2012) <i>J Immunol</i> 188, 1479-90. Biswas, P.S. et al. (2012) <i>J Exp Med</i> 209, 581-96. | |

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| 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 | WB: Western Blotting |
| Cross-Reactivity Key | H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected |
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