

DESCRIPTION

Species Reactivity	Human/Mouse
Specificity	Detects human SWAP70 in direct ELISAs.
Source	Monoclonal Mouse IgG _{2A} Clone # 683317
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human SWAP70 Arg386-Glu585 Accession # Q9UHG5
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide
*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.	

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

SWAP70 (Switch-associated protein 70) is a 67-70 kDa intracellular protein that bears limited resemblance to members of the Dbl-family of GEFs for small Rho GTPases. It is expressed in mast cells, dendritic cells and B cells. In mast cells, it promotes the release of anaphylactic mediators; in dendritic cells, it regulates the appearance of MHC II; and in B cells, it forms a nuclear complex that initiates immunoglobulin class switching. Human SWAP70 is 585 amino acids (aa) in length. It contains one plextrin homology (PH) domain (aa 213-304) plus a coiled-coil region (aa 316-539). There are three potential splice variants. One contains an alternative start site at Met70, another shows a deletion of aa 81-138, and a third possesses a 38 aa substitution for aa 453-585. Over aa 386-585, human SWAP70 shares 96% aa identity with mouse SWAP70.

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