

#### DESCRIPTION

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|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Human/Mouse                                                                                                                                                                                                                                                                 |
| <b>Specificity</b>        | Detects human DAPP1 in direct ELISAs. Detects human and mouse DAPP1 in Western blots.                                                                                                                                                                                       |
| <b>Source</b>             | Monoclonal Mouse IgG <sub>2A</sub> Clone # 716804                                                                                                                                                                                                                           |
| <b>Purification</b>       | Protein A or G purified from hybridoma culture supernatant                                                                                                                                                                                                                  |
| <b>Immunogen</b>          | <i>E. coli</i> -derived recombinant human DAPP1<br>Gly2-Ser163<br>Accession # Q9UN19                                                                                                                                                                                        |
| <b>Conjugate</b>          | Alexa Fluor 700<br>Excitation Wavelength: 675-700 nm<br>Emission Wavelength: 723 nm                                                                                                                                                                                         |
| <b>Formulation</b>        | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide<br><br>*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

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

#### BACKGROUND

DAPP1, also known as Bam32, is a 32 kDa intracellular adaptor protein for tyrosine-phosphorylated proteins and 3-phosphoinositides. It is expressed in B cells, T cells, and mast cells and plays a role in signal transduction during the activation of these cell types. DAPP1 is also required for progression of germinal center reactions and the adhesion of B cells to T cells. It is recruited to the plasma membrane following PI 3-kinase activation. DAPP1 contains one SH2 (aa 34-129) and one PH (aa 164-259) domain. Within aa 2-163, human DAPP1 shares approximately 90% aa sequence identity with mouse and rat DAPP1. Alternate splicing generates an additional isoform with a 22 aa substitution at the C-terminus.

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