

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human VAV-1 in direct ELISAs and Western blots.
Source	Monoclonal Mouse IgG _{2A} Clone # 751411
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Phosphopeptide containing the human Vav-1 Y160 site
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 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.
Immunocytochemistry	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

The Vav-1 proto-oncogene is a 95 kDa guanine nucleotide exchange factor (GEF) for the low molecular weight GTPases of the Rho/Rac family. Vav-1 is a cytosolic protein that is primarily expressed in hematopoietic cells and plays an essential role in the proliferation and activation of T and B cells. It promotes intracellular signaling by its multiple protein binding motifs. Vav-1 is phosphorylated on Y160 after cell adhesion via integrin avb3. This phosphorylation is necessary for adhesion-mediated Rho activation and association between avb3 and Vav-1. The peptide immunogen represents a sequence that is conserved between human, mouse and rat Vav-1.

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