

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human DIAPH-2 in direct ELISAs and Western blots.
Source	Monoclonal Mouse IgG _{2B} Clone # 699142
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human DIAPH-2 Val314-Gln540 Accession # O60879
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

DIAPH2 (diaphenous homolog 2), also called DRF2 (diaphanous-related formin 2), is an 1101 amino acid (aa), 126 kDa (calculated) cytoplasmic protein in the Diaphenous family of actin binding proteins. Disruption of DIAPH2 has been correlated with premature ovarian failure in humans. Within the region used as an immunogen, human DIAPH2 shares 89% and 90% aa identity with mouse and rat DIAPH2, respectively. Two additional isoforms have been described. One, called hDia2C (1097 aa), is lacking aa 45-55, but has 7 aa inserted after aa 149. This form specifically binds RhoD and restricts movement of early endosomes along actin filaments. A 1106 aa form diverges after aa 1080.

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