

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Rit2 in Western blots.
Source	Monoclonal Mouse IgG _{2B} Clone # 456313
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human Rit2 aa 1-217 Accession # Q99578
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 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.
Immunohistochemistry	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

GTP-binding protein Rit2 (Rit2; also Rin, Ras-like protein expressed in neurons, Ras-like without CAAX) is a 25 kDa member of the small GTPase superfamily and Ras family. Human Rit2 is 217 amino acids (aa) in length. Like all small G-proteins, Rit2 contains five highly conserved domains (G1-G5) and acts as a molecular switch by alternating an active GTP-bound form and an inactive GDP-bound form. There are two isoforms for Rit2. Isoform 1 is the long form. Isoform 2 has an 11 aa substitution for residues 143-153 found in isoform 1 and a deletion of aa 154-217. Rit2 is expressed exclusively in neurons. In addition, Rit2 binds calmodulin through a C-terminal binding motif.

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