

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Rab13 in direct ELISA and Western Blot.
Source	Monoclonal Mouse IgG _{2A} Clone # 863028
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human Rab13 Lys94-Thr191 Accession # P51153
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.

Knockout Validated	Optimal dilution of this antibody should be experimentally determined.
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

Ras-related protein Rab13 is a 23 kDa member of the Rab family of small GTPases. With more than 40 family members, Rab proteins are regulators of vesicular transport, and their number reflects the complexity of vesicle trafficking. Rab13 is detected in endothelial cells and a variety of epithelia, including intestine, lung, kidney and liver. Rab13 may participate in the assembly and activity of tight junctions, as it colocalizes with the marker ZO-1 in polarized epithelial cells. In addition, insulin promotes GTP loading of Rab13, potentially regulating GLUT4 translocation in skeletal muscle cells. Human Rab13 is 203 amino acids (aa) in length, with residues 201-203 removed in its mature form. Over aa 94-191, human Rab13 shares 89 and 90% identity with mouse and rat Rab13, respectively.

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