Human Rab13 Antibody

Monoclonal Mouse IgG_{2A} Clone # 863028

Catalog Number: MAB8305

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	*E. coli*-derived recombinant human Rab13 Lys94-Thr191 Accession # P51153
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 μm filtered solution in PBS.

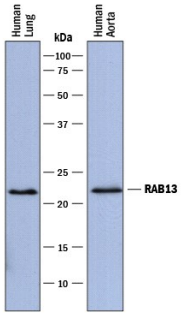
APPLICATIONS

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.*

	Recommended Concentration	Sample
Western Blot	2 µg/mL	See Below
Immunocytochemistry	8-25 µg/mL	See Below

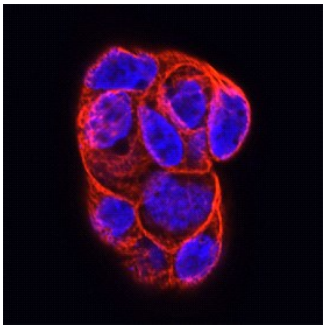
DATA

Western Blot



Detection of Human Rab13 by Western Blot. Western blot shows lysates of human lung tissue and human aorta tissue. PVDF membrane was probed with 2 µg/mL of Mouse Anti-Human Rab13 Monoclonal Antibody (Catalog # MAB8305) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for Rab13 at approximately 23 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Immunocytochemistry



Rab13 in Caco-2 Human Cell Line. Rab13 was detected in immersion fixed Caco-2 human colorectal adenocarcinoma cell line using Mouse Anti-Human Rab13 Monoclonal Antibody (Catalog # MAB8305) at 25 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (red; Catalog # NL007) and counterstained with DAPI (blue). Specific staining was localized to plasma membrane. View our protocol for Fluorescent ICC Staining of Cells on Coverslips.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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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