Human Rab25 Antibody

Monoclonal Mouse IgG_{2B} Clone # 467657

Catalog Number: MAB6605

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human RAB25 in direct ELISAs and Western blots. In direct ELISAs, no cross-reactivity with recombinant human RAB5A, 10, 11A, 27A, or 27B is observed.
Source	Monoclonal Mouse IgG_{2B} Clone # 467657
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant human RAB25 Met1-Ala195 Accession # P57735
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.

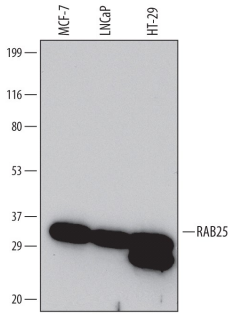
APPLICATIONS

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	1 µg/mL	See Below

DATA

Western Blot



Detection of Human RAB25 by Western Blot. Western blot shows lysates of MCF-7 human breast cancer cell line, LNCaP human prostate cancer cell line, and HT-29 human colon adenocarcinoma cell line. PVDF Membrane was probed with 1 µg/mL of Mouse Anti-Human RAB25 Monoclonal Antibody (Catalog # MAB6605) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for RAB25 at approximately 30 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.5 mg/mL.
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 RAB25, also known as CATX-8, is a 23 kDa (unglycosylated) member of the small GTPase superfamily and RAB family of proteins. Human RAB25 is 213 amino acids (aa) in length. The mature chain runs from aa 1-210 with residues 211-213 constituting a propeptide. Residues 10-174 are noted to be RAB11-like. RAB11a, RAB11b, and RAB25 are closely related RAB proteins that are differentially expressed. Human RAB25 shares 96% aa sequence identity with mouse RAB25. Functionally, RAB25 is involved in the regulation of cell survival. Researchers have shown that RAB25 promotes invasive migration of cells and increases the rates and aggressiveness of breast and ovarian cancers. It is expressed in breast and ovarian tissues.

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