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Rab25 Antibody
Purified Mouse Monoclonal Antibody
Catalog # AO1039a

Specification

Rab25 Antibody - Product Information

Application	**WB, IHC**
Primary Accession	P57735
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**IgG2a**

Description
Members of the Ras-related superfamily of GTP binding proteins, which includes Ras, Rho, Rab and ARF subfamilies, exhibit 30-50% similarity with Ras p21. Rab proteins play an important role for either in endocytosis or in biosynthetic protein transport. The possibility that Rab proteins might also direct the exocytosis from secretory vesicles to the plasma membrane is supported by the observation that in yeast, the SEC4 protein, which is 40% similar to Rab proteins, is associated with secretory vesicles.Rab proteins located on the cytoplasmic face of organelles and vesicles, rab proteins are involved in intracellular membrane fusion reactions. Rab25 was cloned from a gastric parietal cell cDNA library and is expressed in epithelial tissues such as the gastrointestinal mucosae, kidney, and lung, which encoded a protein of 28 kDa

Immunogen
Purified recombinant fragment of Rab25 expressed in E. Coli.

Formulation
Purified antibody in PBS containing 0.03% sodium azide.

Rab25 Antibody - Additional Information

Gene ID 57111

Other Names
Ras-related protein Rab-25, CATX-8, RAB25, CATX8

Dilution
WB~~1/500 - 1/2000
IHC~~1/200 - 1/1000

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
Rab25 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Rab25 Antibody - Protein Information

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Name RAB25 (HGNC:18238)

Synonyms CATX8

Function
Involved in the regulation of cell survival. Promotes invasive migration of cells in which it functions to localize and maintain integrin alpha-V/beta-1 at the tips of extending pseudopodia (PubMed:17925226). Involved in the regulation of epithelial morphogenesis through the control of CLDN4 expression and localization at tight junctions (By similarity). May selectively regulate the apical recycling pathway. Together with MYO5B regulates transcytosis (By similarity).

Cellular Location
Cell membrane; Lipid-anchor; Cytoplasmic side. Cell projection, pseudopodium membrane. Cytoplasmic vesicle. Note=Colocalizes with integrin alpha-V/beta-1 in vesicles at the pseudopodial tips

Tissue Location
Expressed in ovarian epithelium (NOE) and breast tissue. Expressed in ovarian cancer; expression is increased relative to NOE cells. Expression in ovarian cancer is stage dependent, with stage III and stage IV showing higher levels than early stage cancers Expressed in breast cancer; expression is increased relative to normal breast tissue.

Rab25 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Rab25 Antibody - Images

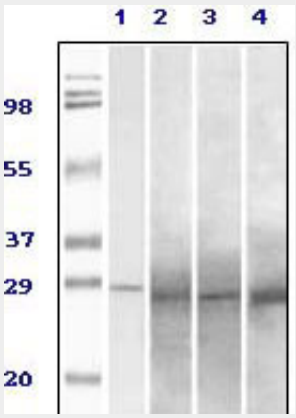


Figure 1: Western blot analysis using Rab25 mouse mAb against truncated Rab25 recombinant protein (1), human overy carcinoma(2), stomach carcinoma (3), breast carcinoma (4) tissue

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lysate.

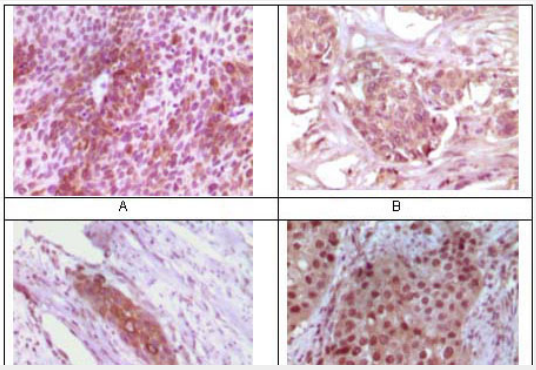


Figure 2: Immunohistochemical analysis of paraffin-embedded human bladder carcinoma (A), breast carcinoma (B), esophagus carcinoma (C), skin carcinoma (D) tissue, showing cytoplasmic localization using Rab25 mouse mAb with DAB staining.

Rab25 Antibody - References

1. JR Goldenring, KR Shen, HD Vaughan. et al. J. Biol. Chem,1993,268(25):18419-18422 2. Xiaoye W, Ravindra K, Jennifer N. et al. J. Biol. Chem,2000,275(37):29138-29146