



Rabbit Anti-RABX5 antibody

SL6916R

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| Product Name: | RABX5 |
| Chinese Name: | G蛋白相关RABX5抗体 |
| Alias: | Rabex5; RAB guanine nucleotide exchange factor (GEF) 1; Rab5 GDP/GTP exchange factor; Rab5ef; Rabaptin 5 associated exchange factor for Rab5; Rabaptin-5-associated exchange factor for Rab5; Rabex 5; Rabex-5; RABGEF 1; Rabgef1; RABX 5; RABX5; RABX5 HUMAN; RAP1; Rin 2; Rin2. |
| Organism Species: | Rabbit |
| Clonality: | Polyclonal |
| React Species: | Human,Mouse,Rat,Dog,Pig,Cow,Horse,Rabbit, |
| Applications: | WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user. |
| Molecular weight: | 79kDa |
| Cellular localization: | cytoplasmic |
| Form: | Lyophilized or Liquid |
| Concentration: | 1mg/ml |
| immunogen: | KLH conjugated synthetic peptide derived from human RABX5:251-350/708 |
| Lsotype: | IgG |
| Purification: | affinity purified by Protein A |
| Storage Buffer: | 0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol. |
| Storage: | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C. |
| PubMed: | PubMed |
| Product Detail: | RABGEF1 forms a complex with rabaptin-5 (RABPT5; MIM 603616) that is required for endocytic membrane fusion, and it serves as a specific guanine nucleotide exchange factor (GEF) for RAB5 (RAB5A; MIM 179512) (Horiuchi et al., 1997 [PubMed 9323142]).[supplied by OMIM, Mar 2010] |

Function:

Rab effector protein acting as linker between gamma-adaptin, RAB4A or RAB5A. Involved in endocytic membrane fusion and membrane trafficking of recycling endosomes. Stimulates nucleotide exchange on RAB5A. Can act as a ubiquitin ligase (By similarity).

Subunit:

Interacts with RGS14; the interaction is GTP-dependent (By similarity). Heterodimer with RABEP1. The heterodimer binds RAB4A and RAB5A that have been activated by GTP-binding. Interacts with RAB21, and with 100-fold lower affinity also with RAB22. Binds TSC2, GGA1, GGA2, GGA3, AP1G1 and AP1G2. Interacts with ubiquitinated EGFR

Subcellular Location:

Cytoplasm. Early endosome. Recycling endosome.

Post-translational modifications:

Monoubiquitinated.

Similarity:

Contains 1 A20-type zinc finger.
Contains 1 VPS9 domain.

SWISS:

Q9UJ41

Gene ID:

27342

Database links:

[Entrez Gene: 27342](#) Human

[Entrez Gene: 56715](#) Mouse

[Entrez Gene: 360797](#) Rat

[Omim: 609700](#) Human

[SwissProt: Q9UJ41](#) Human

[SwissProt: Q9JM13](#) Mouse

[Unigene: 530053](#) Human

[Unigene: 288639](#) Mouse

[Unigene: 21688](#) Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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