

## RB6I2 Rabbit pAb

CatalogNo: YN1654

### Key Features

**Host Species**

- Rabbit

**Reactivity**

- Human, Mouse, Rat

**Applications**

- WB, ELISA

**MW**

- 122kD (Observed)

**Isotype**

- IgG

### Storage

**Storage\*** -15°C to -25°C/1 year (Do not lower than -25°C)**Formulation** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

### Recommended Dilution Ratios

**WB 1:500-2000****ELISA 1:5000-20000**

### Basic Information

**Clonality** Polyclonal

### Immunogen Information

**Immunogen** Synthesized peptide derived from human protein . at AA range: 100-150**Specificity** RB6I2 Polyclonal Antibody detects endogenous levels of protein.

### Target Information

**Gene name** ERC1 ELKS KIAA1081 RAB6IP2

**Protein Name** ELKS/Rab6-interacting/CAST family member 1 (ERC-1) (Rab6-interacting protein 2)

| Organism | Gene ID                 | UniProt ID               |
|----------|-------------------------|--------------------------|
| Human    | <a href="#">23085</a> ; | <a href="#">Q8IUD2</a> ; |
| Mouse    |                         | <a href="#">Q99MI1</a> ; |
| Rat      |                         | <a href="#">Q811U3</a> ; |

**Cellular Localization** Cytoplasm, cytoskeleton, microtubule organizing center, centrosome . Cytoplasm . Membrane ; Peripheral membrane protein . Golgi apparatus membrane ; Peripheral membrane protein . Cell junction, synapse, presynaptic cell membrane . Recruited on Golgi membranes by RAB6A in a GTP-dependent manner (By similarity). .

**Tissue specificity** Widely expressed. Isoform 2 and isoform 4 are abundantly expressed in brain. Isoform 1 and isoform 3 are predominantly expressed in testis and thyroid, and isoform 1 predominates in other tissues tested.

**Function** Disease:A chromosomal aberration involving ERC1/RAB6IP2 may be a cause of thyroid papillary carcinoma (PACT) [MIM:188550]. Translocation t(10;12)(q11;p13) involving RET. In vitro, isoform 1, isoform 3 and isoform 5 participating in a ERC1-RET fusion protein activate tyrosine-protein kinase activity.,Function:Regulatory subunit of the IKK complex. Probably recruits I $\kappa$ B $\alpha$ /NFKBIA to the complex. May be involved in the organization of the cytomatrix at the nerve terminals active zone (CAZ) which regulates neurotransmitter release. May be involved in vesicle trafficking at the CAZ. May be involved in Rab-6 regulated endosomes to Golgi transport.,sequence Caution:Contaminating sequence. Potential poly-A sequence.,subcellular location:In neurons, localized closed to presynaptic membrane. Recruited on Golgi membranes by RAB6A in a GTP-dependent manner.,subunit:Part of a complex with CHUK, IKBKB and IKBKG. Interacts with CHUK, IKBKB and IKBKG. The interaction with IKBKG is independent of CHUK and IKBKB. Interacts with NFKBIA. Isoform 4 interacts with PPFIA1, and through its C-terminus with the PDZ domains of RIMS1 and RIMS2. Interacts with ERC2/CAST1. Interacts with the GTB-bound forms of RAB6A isoform 1 and isoform 2 and with RAB6B. The interaction was strongest with RAB6B, followed by RAB6A isoform 2 and weakest with RAB6A isoform 1.,tissue specificity:Widely expressed. Isoform 2 and isoform 4 are abundantly expressed in brain. Isoform 1 and isoform 3 are predominantly expressed in testis and thyroid, and isoform 1 predominates in other tissues tested.,

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## Validation Data

## Contact information

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