

## RGPD5 Antibody

*RGPD5 (NT): RANBP2-like and GRIP domain-containing protein 5, RGP5, RANBP2L1*

**CATALOG No.:4585**

### BACKGROUND:

The RANBP2-like and GRIP domain containing 5 protein (RGPD5) has high similarity to RANBP2, a large RAN-binding protein localized at the cytoplasmic side of the nuclear pore complex. The gene coding for RGPD5 is thought to have arisen from a gene duplication event of RANBP2 as these highly homologous genes are located close to each other at chromosome 2q11-q12 (1). RGPD5 was identified as an HIV dependency factor (HDF), suggesting that RGPD5 may be an important drug target in HIV treatment (2). At least two isoforms of RGPD5 are known to exist, of which the shorter isoform is expressed primarily in testis, while the longer of the two is expressed at low levels in a number of somatic tissues (3).

### SOURCE:

Rabbit polyclonal RGPD5 antibody was raised against a 13 amino acid peptide from near the amino terminus of human RGPD5 (GenBank accession no. NP\_005045).

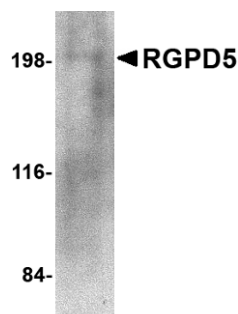
### APPLICATIONS:

RGPD5 antibody can be used for detection of RGPD5 by Western blot at 1 – 2 µg/ml. (Optimal dilution should be determined by user.) Human thymus tissue lysate can be used as positive control. RGPD5 antibody is human specific.

**For research use only.**

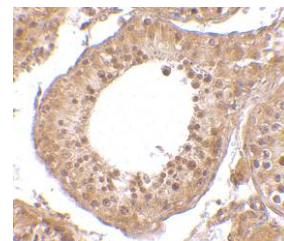
### STORAGE:

RGPD5 antibody is supplied as immunoaffinity purified IgG in PBS containing 0.02% sodium azide. Store at 4°C, stable for one year.



Western blot analysis of RGPD5 in human thymus tissue lysate with RGPD5 antibody at 1 µg/ml.

Immunohistochemistry of RGPD5 in human testis tissue cells with RGPD5 antibody at 10 µg/ml.



### RELATED PRODUCTS:

Blocking Peptide, Catalog No. **4585P**.

Human Thymus Tissue Lysate, Catalog No. **1314**.

RGPD5 Antibody (IN), Catalog No. **4587**.

### REFERENCES:

1. Nothwang HG, Rensing C, Kubler M, et al. Identification of a novel Ran binding protein 2 related gene (RANBP2L1) and detection of a gene cluster on chromosome 2q11-q12. *Genomics* 1998; 47:383-92.
2. Brass AL, Dykxhoorn DM, Benita Y, et al. Identification of host proteins required for HIV infection through a functional genomic screen. *Science* 2008; 319:921-6.
3. Wang LF, Zhu HD, Miao SY, et al. Molecular cloning and characterization of a novel testis-specific nucleoporin-related gene. *Arch. Androl.* 1999; 42:71-84. (08-01D)