

**GARP Antibody (Center)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP6647c**

**Specification**

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**GARP Antibody (Center) - Product Information**

|                   |                        |
|-------------------|------------------------|
| Application       | <b>WB, IHC-P,E</b>     |
| Primary Accession | <a href="#">Q14392</a> |
| Reactivity        | <b>Human, Mouse</b>    |
| Host              | <b>Rabbit</b>          |
| Clonality         | <b>Polyclonal</b>      |
| Isotype           | <b>Rabbit IgG</b>      |
| Antigen Region    | <b>234-260</b>         |

**GARP Antibody (Center) - Additional Information**

**Gene ID** 2615

**Other Names**

Leucine-rich repeat-containing protein 32, Garpin, Glycoprotein A repetitions predominant, GARP, LRRC32, D11S833E, GARP

**Target/Specificity**

This GARP antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 234-260 amino acids from the Central region of human GARP.

**Dilution**

WB~~1:1000  
IHC-P~~1:10~50

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

**Storage**

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

**Precautions**

GARP Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

**GARP Antibody (Center) - Protein Information**

**Name** LRRC32 {ECO:0000303|PubMed:19651619, ECO:0000312|HGNC:HGNC:4161}

**Function** Key regulator of transforming growth factor beta (TGFB1, TGFB2 and TGFB3) that controls TGF-beta activation by maintaining it in a latent state during storage in extracellular

space (PubMed:[19651619](#), PubMed:[19750484](#), PubMed:[22278742](#)). Associates specifically via disulfide bonds with the Latency-associated peptide (LAP), which is the regulatory chain of TGF-beta, and regulates integrin-dependent activation of TGF-beta (PubMed:[22278742](#)). Able to outcompete LTBP1 for binding to LAP regulatory chain of TGF-beta (PubMed:[22278742](#)). Controls activation of TGF-beta-1 (TGFB1) on the surface of activated regulatory T-cells (Tregs) (PubMed:[19651619](#), PubMed:[19750484](#)). Required for epithelial fusion during palate development by regulating activation of TGF-beta-3 (TGFB3) (By similarity).

#### Cellular Location

Cell membrane; Single-pass type I membrane protein. Cell surface

#### Tissue Location

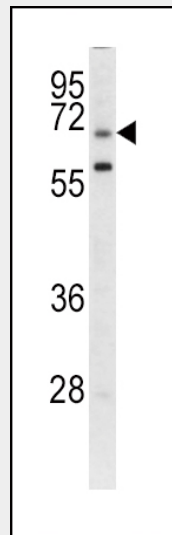
Preferentially expressed in regulatory T-cells (Tregs).

### GARP Antibody (Center) - Protocols

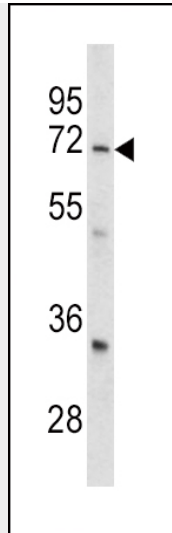
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

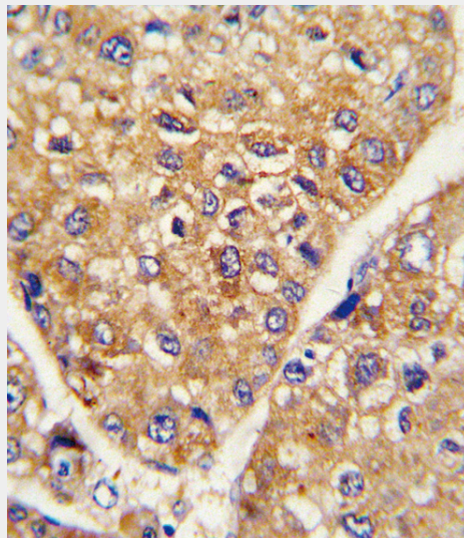
### GARP Antibody (Center) - Images



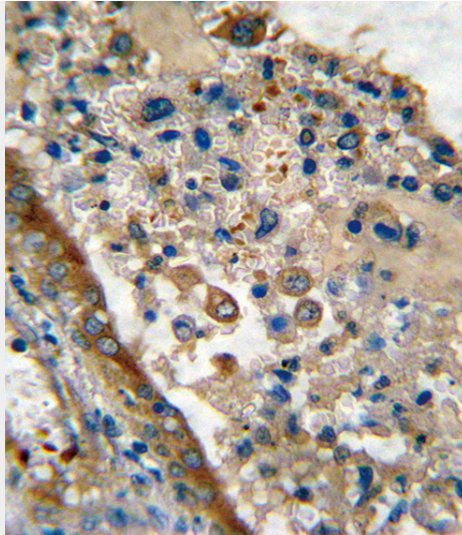
Western blot analysis of GARP antibody (Center) (Cat. #AP6647c) in CEM cell line lysates (35ug/lane). GARP (arrow) was detected using the purified Pab.



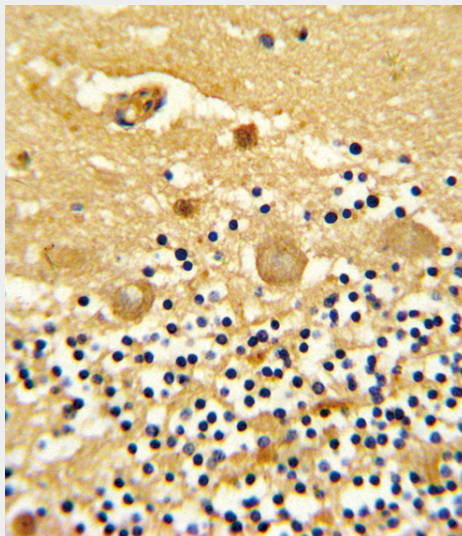
Western blot analysis of GARP antibody (Center) (Cat. #AP6647c) in mouse cerebellum tissue lysates (35ug/lane). GARP (arrow) was detected using the purified Pab.



Formalin-fixed and paraffin-embedded human hepatocarcinoma reacted with GARP Antibody (Center), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



Formalin-fixed and paraffin-embedded human lung carcinoma reacted with GARP Antibody (Center), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



Formalin-fixed and paraffin-embedded human cerebellum reacted with GARP Antibody (Center), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

#### **GARP Antibody (Center) - Background**

GARP is a type I membrane protein which contains 20 leucine-rich repeats.

#### **GARP Antibody (Center) - References**

- Wang,R., PLoS ONE 3 (7), E2705 (2008)
- Maire,G., Genes Chromosomes Cancer 37 (4), 389-395 (2003)