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GARP Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP6647c

Specification

GARP Antibody (Center) Blocking Peptide - Product Information

Primary Accession Q14392

GARP Antibody (Center) Blocking Peptide - Additional Information

Gene ID 2615

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

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP6647c was selected from the Center region of human GARP. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

GARP Antibody (Center) Blocking Peptide - 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:19750484, PubMed:19651619, 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:<a

href="http://www.uniprot.org/citations/19750484" target="_blank">19750484, PubMed:19651619). 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) Blocking Peptide - Protocols

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

- Blocking Peptides

GARP Antibody (Center) Blocking Peptide - Images

GARP Antibody (Center) Blocking Peptide - Background

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

GARP Antibody (Center) Blocking Peptide - References

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