

**LRRC32 Polyclonal Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP57069**

**Specification**

**LRRC32 Polyclonal Antibody - Product Information**

Application	IHC-P, IHC-F, IF, ICC
Primary Accession	<a href="#">Q14392</a>
Host	Rabbit
Clonality	Polyclonal
Calculated MW	70 KDa
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human LRRC32
Epitope Specificity	231-330/662
Isotype	IgG
<b>Purity</b>	
affinity purified by Protein A	
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Membrane.
SIMILARITY	Contains 20 LRR (leucine-rich) repeats. Contains 1 LRRCT domain.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

**Background Descriptions**

LRRC32 is a 662 amino acid single-pass type I membrane protein that contains 22 LRR repeats and is thought to be involved in platelet-endothelium interactions, as well as in the development of rare, benign hibernomas. The gene encoding LRRC32 maps to human chromosome 11, which houses over 1,400 genes and comprises nearly 4% of the human genome. Jervell and Lange-Nielsen syndrome, Jacobsen syndrome, Niemann-Pick disease, hereditary angioedema and Smith-Lemli-Opitz syndrome are associated with defects in genes that maps to chromosome 11.

**LRRC32 Polyclonal Antibody - Additional Information**

**Gene ID** 2615

**Other Names**

Transforming growth factor beta activator LRRC32, Garpin, Glycoprotein A repetitions predominant, GARP, Leucine-rich repeat-containing protein 32, LRRC32  
{ECO:0000303|PubMed:19651619, ECO:0000312|HGNC:HGNC:4161}

**Target/Specificity**

Preferentially expressed in regulatory T-cells (T(regs)).

**Dilution**

<span class = "dilution\_IHC-P">IHC-P~~N/A</span><br \><span class

=["dilution\\_IHC-F">IHC-F](#)~[N/A](#)</span><br \><span class  
=["dilution\\_IF">IF](#)~[1:50~200](#)</span><br \><span class =["dilution\\_ICC">ICC](#)~[N/A](#)</span>

**Format**

0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

**Storage**

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. 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.

**LRRC32 Polyclonal Antibody - 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:<a href="http://www.uniprot.org/citations/19651619" target="\_blank">19651619</a>, PubMed:<a href="http://www.uniprot.org/citations/19750484" target="\_blank">19750484</a>, PubMed:<a href="http://www.uniprot.org/citations/22278742" target="\_blank">22278742</a>). 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:<a href="http://www.uniprot.org/citations/22278742" target="\_blank">22278742</a>). Able to outcompete LTBP1 for binding to LAP regulatory chain of TGF-beta (PubMed:<a href="http://www.uniprot.org/citations/22278742" target="\_blank">22278742</a>). Controls activation of TGF-beta-1 (TGFB1) on the surface of activated regulatory T-cells (Tregs) (PubMed:<a href="http://www.uniprot.org/citations/19651619" target="\_blank">19651619</a>, PubMed:<a href="http://www.uniprot.org/citations/19750484" target="\_blank">19750484</a>). 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).

**LRRC32 Polyclonal Antibody - 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](#)

**LRRC32 Polyclonal Antibody - Images**