

# LRRC32 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP57069

## Product Information

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<b>Application</b>	IHC-P, IHC-F, IF, ICC
<b>Primary Accession</b>	<a href="#">Q14392</a>
<b>Reactivity</b>	Human, Rhesus
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Calculated MW</b>	71979
<b>Physical State</b>	Liquid
<b>Immunogen</b>	KLH conjugated synthetic peptide derived from human LRRC32
<b>Epitope Specificity</b>	231-330/662
<b>Isotype</b>	IgG
<b>Purity</b>	affinity purified by Protein A
<b>Buffer</b>	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
<b>SUBCELLULAR LOCATION</b>	Membrane.
<b>SIMILARITY</b>	Contains 20 LRR (leucine-rich) repeats. Contains 1 LRRCT domain.
<b>Important Note</b>	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
<b>Background Descriptions</b>	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.

## Additional Information

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<b>Gene ID</b>	2615
<b>Other Names</b>	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}
<b>Target/Specificity</b>	Preferentially expressed in regulatory T-cells (T(regs)).
<b>Dilution</b>	IHC-P=1:100-500,IHC-F=1:100-500,ICC=1:100-500,IF=1:100-500
<b>Format</b>	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce
<b>Storage</b>	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.

## Protein Information

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<b>Name</b>	LRRC32 {ECO:0000303   PubMed:19651619, ECO:0000312   HGNC:HGNC:4161}
<b>Function</b>	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="#">19651619</a> , PubMed: <a href="#">19750484</a> , PubMed: <a href="#">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="#">22278742</a> ). Able to outcompete LTBP1 for binding to LAP regulatory chain of TGF-beta (PubMed: <a href="#">22278742</a> ). Controls activation of TGF-beta-1 (TGFB1) on the surface of activated regulatory T-cells (Tregs) (PubMed: <a href="#">19651619</a> , PubMed: <a href="#">19750484</a> ). Required for epithelial fusion during palate development by regulating activation of TGF-beta-3 (TGFB3) (By similarity).
<b>Cellular Location</b>	Cell membrane; Single-pass type I membrane protein. Cell surface
<b>Tissue Location</b>	Preferentially expressed in regulatory T-cells (Tregs).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.