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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	Q14392
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**
Purity 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
IHC-P~~N/A<br \><span class

="dilution_IHC-F">IHC-F~~N/A<br \><span class
="dilution_IF">IF~~1:50~200<br \>ICC~~N/A

Storage
Store at -20 ℃ 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 ℃.

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: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).

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 Cytomety
- Cell Culture

LRRC32 Polyclonal Antibody - Images