

LRRC33 Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP57070

Specification

LRRC33 Polyclonal Antibody - Product Information

Application	WB, IHC-P, IHC-F, IF, ICC, E
Primary Accession	Q86YC3
Reactivity	Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	74 KDa
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human LRRC33
Epitope Specificity	501-600/692
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; Single pass type I membrane protein.
SIMILARITY	Contains 21 LRR (leucine-rich) repeats.
SUBUNIT	Interacts with CYBB/NOX2; the interaction is direct. By similarity. Interacts (via LRR repeats) with TLR2, TLR3, TLR4, TLR9 and probably other Toll-like receptors.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Background Descriptions

LRRC33 is a 692 amino acid protein that contains 17 LRR repeats. The gene encoding LRRC33 maps to chromosome 3, which encodes over 1,100 genes. Particular regions of the chromosome 3 short arm are deleted in many types of cancer cells. Marfan syndrome, porphyria, von Hippel-Lindau syndrome, osteogenesis imperfecta and Charcot-Marie-Tooth disease are a few of the numerous genetic diseases associated with chromosome 3.

LRRC33 Polyclonal Antibody - Additional Information

Gene ID 375387

Other Names

Transforming growth factor beta activator LRRC33, Leucine-rich repeat-containing protein 33, Negative regulator of reactive oxygen species, NRROS (HGNC:24613)

Target/Specificity

Ubiquitous, with high level of expression found in bone marrow, thymus, liver, lung, intestine and spleen.

Dilution

WB~~1:1000<br \>IHC-P~~N/A<br \>IHC-F~~N/A<br \>IF~~1:50~200<br \>ICC~~N/A<br \>E~~N/A

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.

LRRC33 Polyclonal Antibody - Protein Information**Name** [NRROS \(HGNC:24613\)](#)**Function**

Key regulator of transforming growth factor beta-1 (TGFB1) specifically required for microglia function in the nervous system (By similarity). Required for activation of latent TGF-beta-1 in macrophages and microglia: associates specifically via disulfide bonds with the Latency-associated peptide (LAP), which is the regulatory chain of TGFB1, and regulates integrin-dependent activation of TGF- beta-1 (By similarity). TGF-beta-1 activation mediated by LRRC33/NRROS is highly localized: there is little spreading of TGF-beta-1 activated from one microglial cell to neighboring microglia, suggesting the existence of localized and selective activation of TGF-beta-1 by LRRC33/NRROS (By similarity). Indirectly plays a role in Toll-like receptor (TLR) signaling: ability to inhibit TLR-mediated NF-kappa-B activation and cytokine production is probably a consequence of its role in TGF-beta-1 signaling (PubMed:23545260).

Cellular Location

Cell membrane; Single-pass type I membrane protein. Endoplasmic reticulum membrane; Single-pass type I membrane protein

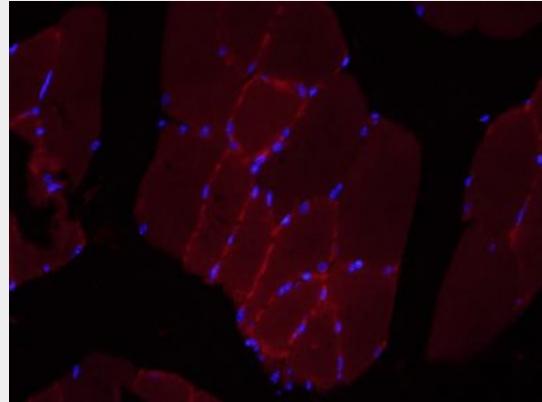
Tissue Location

Mainly expressed in cells of hematopoietic origin (PubMed:29909984). Highly expressed in bone marrow, thymus, liver, lung, intestine and spleen (PubMed:23545260). In the brain, highly expressed in microglia (PubMed:32100099).

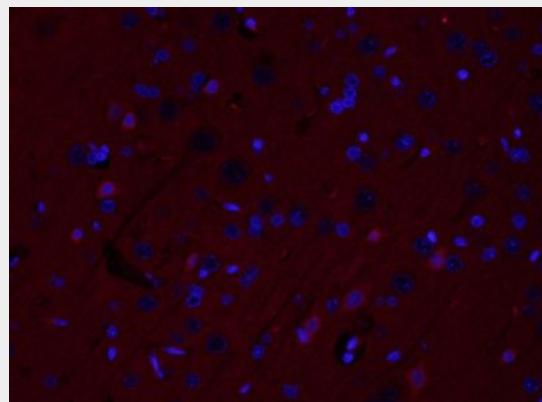
LRRC33 Polyclonal Antibody - Protocols

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

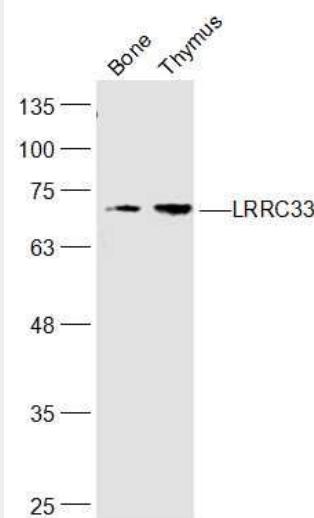
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

LRRC33 Polyclonal Antibody - Images

Paraformaldehyde-fixed, paraffin embedded (Mouse skeletal muscle); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (LRRC33) Polyclonal Antibody, Unconjugated (bs-18379R) at 1:400 overnight at 4°C, followed by a conjugated secondary antibody (bs-0295G-cy3) for 90 minutes, and DAPI for nuclei staining.



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (LRRC33) Polyclonal Antibody, Unconjugated (bs-18379R) at 1:400 overnight at 4°C, followed by a conjugated secondary antibody (bs-0295G-cy3) for 90 minutes, and DAPI for nuclei staining.



Sample:

Bone(Rat) Cell Lysate at 40 ug

Thymus(Rat) Cell Lysate at 40 ug

Primary: Anti-LRRC33 (bs-18379R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 74 kD

Observed band size: 74 kD