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LRRC33 Antibody (C-term) Blocking peptide

Synthetic peptide
Catalog # BP10317b

Specification

LRRC33 Antibody (C-term) Blocking peptide - Product Information

Primary Accession	Q86YC3
Other Accession	NP_940967.1

LRRC33 Antibody (C-term) Blocking peptide - Additional Information

Gene ID 375387

Other Names
Negative regulator of reactive oxygen species, Leucine-rich repeat-containing protein 33, NRROS, LRRC33

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.

LRRC33 Antibody (C-term) Blocking peptide - 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 Antibody (C-term) Blocking peptide - Protocols

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

- Blocking Peptides

LRRC33 Antibody (C-term) Blocking peptide - Images

LRRC33 Antibody (C-term) Blocking peptide - References

Clark, H.F., et al. Genome Res. 13(10):2265-2270(2003)