

LRRC19 Antibody

Catalog # ASC11084

Product Information

Application	WB, IF, ICC, E
Primary Accession	Q9H756
Other Accession	NP_075052 , 12597641
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	42334
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	LRRC19 antibody can be used for detection of LRRC19 by Western blot at 1 µg/mL. Antibody can also be used for immunocytochemistry starting at 2.5 µg/mL. For immunofluorescence start at 20 µg/mL.

Additional Information

Gene ID	64922
Other Names	Leucine-rich repeat-containing protein 19, LRRC19
Target/Specificity	LRRC19;
Reconstitution & Storage	LRRC19 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Precautions	LRRC19 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	LRRC19 (HGNC:23379)
Function	Pathogen-recognition receptor which mediates the activation of TRAF2- and TRAF6 NF-kappa-B signaling pathways and induces the expression of pro-inflammatory cytokines (PubMed: 19679103 , PubMed: 25026888). In kidney, prevents infection by uropathogenic bacteria by inducing the production of cytokines, chemokines and antimicrobial substances. In gut, involved in host-microbiota interactions, plays a critical role in promoting the recruitment of immune cells and intestinal inflammation (By similarity).
Cellular Location	Membrane; Single-pass type I membrane protein

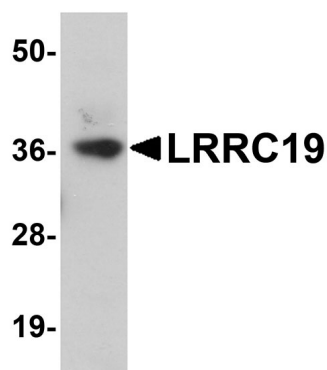
Background

LRRC19 Antibody: LRRC19 is a member of the extracellular leucine-rich repeat superfamily, a family of proteins that are thought to have diverse functions such as cell adhesion, signaling, and innate immunity. LRRC19 is closely related to the Toll-like receptors (TLRs), especially TLR3. LRRC19 does not contain a cytoplasmic Toll/IL-1 receptor (TIR) domain, but can activate NF- κ B and induce the production of proinflammatory cytokines after stimulation with the TLR3 and other TLR ligands, suggesting that LRRC19 may play a role in the recognition and the response to certain pathogenic microorganisms. LRRC19 has also been suggested to be a potential biomarker for pancreatic tumor sensitivity to the anti-cancer, small molecule Src inhibitor AZD0530.

References

Dolan J, Walshe K, Alsbury S, et al. The extracellular leucine-rich repeat superfamily: a comparative survey and analysis of evolutionary relationships and expression patterns. *BMC Genomics* 2007; 8:320.
Chai L, Dai L, Che Y, et al. LRRC19, a novel member of the leucine-rich repeat protein family, activates NF- κ B and induces expression of proinflammatory cytokines. *Biochem. Biophys. Res. Comm.* 2009; 388:543-8.
Rajeshkumar NV, Tan AC, De Oliveira E, et al. Antitumor effects and biomarkers of activity of AZD0530, a Src inhibitor, in pancreatic cancer. *Clin. Cancer Res.* 2009; 15:4138-46.

Images



Western blot analysis of LRRC19 in K562 cell lysate with LRRC19 antibody at 1 μ g/mL.



Immunocytochemistry of LRRC19 in K562 cells with LRRC19 antibody at 2.5 μ g/mL.

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