

**LRRFIP2 Antibody**  
**Catalog # ASC11293****Specification**

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**LRRFIP2 Antibody - Product Information**

Application	WB, IHC, IF
Primary Accession	<a href="#">Q9Y608</a>
Other Accession	<a href="#">NP_006300</a> , <a href="#">5453726</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Application Notes	LRRFIP2 antibody can be used for detection of LRRFIP2 by Western blot at 0.5 and 1 µg/mL. Antibody can also be used for immunohistochemistry starting at 5 µg/mL. For immunofluorescence start at 20 µg/mL.

**LRRFIP2 Antibody - Additional Information**Gene ID **9209****Target/Specificity**

LRRFIP2; Three isoforms of LRRFIP2 are known to exist; this antibody will recognize all three. LRRFIP2 antibody is predicted to not cross-react with other LRRFIP family members.

**Reconstitution & Storage**

LRRFIP2 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**

LRRFIP2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**LRRFIP2 Antibody - Protein Information****Name** LRRFIP2**Function**

May function as activator of the canonical Wnt signaling pathway, in association with DVL3, upstream of CTNNB1/beta-catenin. Positively regulates Toll-like receptor (TLR) signaling in response to agonist probably by competing with the negative FLII regulator for MYD88-binding.

**Tissue Location**

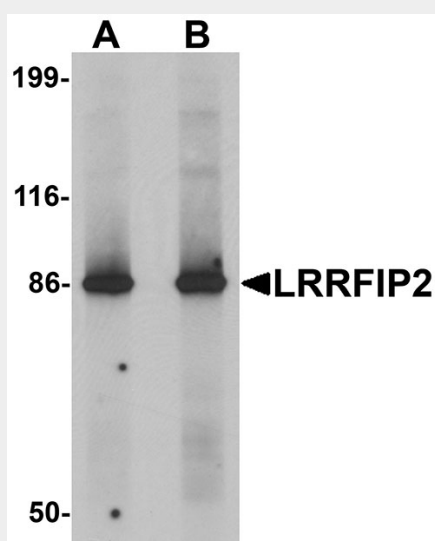
Widely expressed, with highest levels in heart and skeletal muscle.

## LRRFIP2 Antibody - Protocols

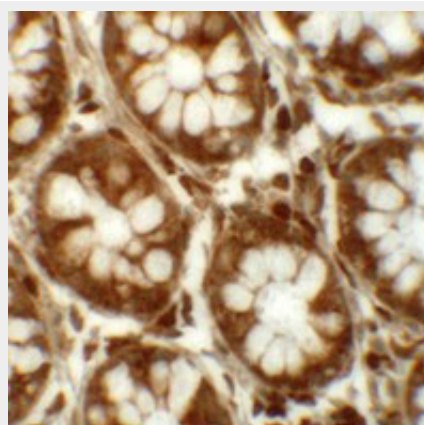
Provided below are standard protocols that you may find useful for product applications.

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

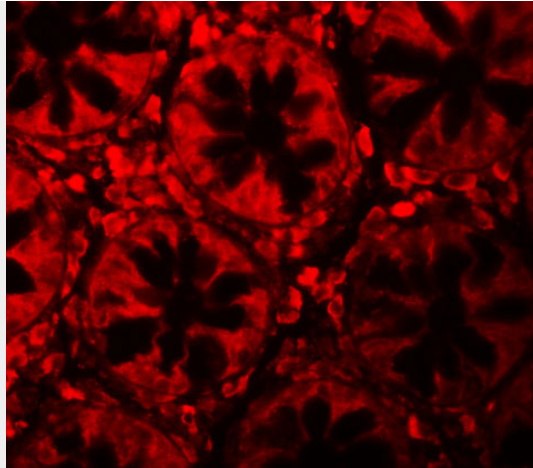
## LRRFIP2 Antibody - Images



Western blot analysis of LRRFIP2 in rat colon tissue lysate with LRRFIP2 antibody at (A) 0.5 and (B) 1 µg/mL.



Immunohistochemistry of LRRFIP2 in human colon tissue with LRRFIP2 antibody at 5 µg/mL.



Immunofluorescence of LRRFIP2 in human colon tissue with LRRFIP2 antibody at 20 µg/mL.

### **LRRFIP2 Antibody - Background**

**LRRFIP2 Antibody:** The leucine-rich repeat FLI-I-interacting protein 2 (LRRFIP2), like the related protein LRRFIP1, was identified in a yeast two-hybrid system through binding to the LRR domain of human FLI. It can activate the Wnt signaling pathway in cultured cells and is thought to be a component of the Wnt signaling pathway that modulates Wnt signaling through interactions with Disheveled to increase the cellular levels and transcription activity of beta-catenin. LRRFIP2 has recently been characterized as a positive regulator of the TLR4 signaling pathway for activating NF-κB during the early host response to LPS stimulation through binding to the TLR adaptor protein MyD88, and that this interaction with MyD88 is governed by phosphorylation of specific residues in LRRFIP2.

### **LRRFIP2 Antibody - References**

Fong KS and de Couet HG. Novel proteins interacting with the leucine-rich repeat domain of human flightless-I identified by the yeast two-hybrid system. *Genomics* 1999; 58:146-57.  
Liu J, Bang AG, Kintner C, et al. Identification of the Wnt signaling activator leucine-rich repeat in Flightless interaction protein 2 by a genome-wide functional analysis. *Proc. Natl. Acad. Sci. USA* 2005; 102:1927-32.  
Dai P, Jeong SY, Yu Y, et al. Modulation of TLR signaling by multiple MyD88-interacting including leucine-rich repeat Fli-I-interacting proteins. *J. Immunol.* 2009; 182:3450-60.  
Gunawardena HP, Huang Y, Kenjale R, et al. Unambiguous characterization of site-specific phosphorylation of Leucine-rich FLI-I-interacting protein 2 (LRRFIP2) in Toll-like receptor 4 (TLR4)-mediated signaling. *J. Biol. Chem.* 2011; epub.