

**bs-9327R****[ Primary Antibody ]****LRCH1 Rabbit pAb****Bioss**  
**ANTIBODIES**

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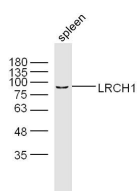
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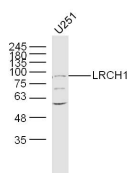
400-901-9800

**— DATASHEET —****Host:** Rabbit**Isotype:** IgG**Clonality:** Polyclonal**GeneID:** 23143**SWISS:** Q9Y2L9**Target:** LRCH1**Immunogen:** KLH conjugated synthetic peptide derived from human LRCH1: 221-320/728.**Purification:** affinity purified by Protein A**Concentration:** 1mg/ml**Storage:** 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

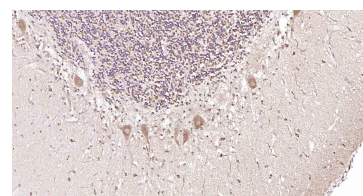
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

**Background:** Members of the leucine-rich repeat family include LRCH1, LRCH2, LRCH3 and LRCH4. All family members contain one calponin-homology domain and nine leucine-rich repeats. The gene encoding LRCH1, also known as Neuronal protein 81 (NP81), has been suggested to be a possible gene locus for susceptibility to osteoarthritis, especially in women, though studies have shown conflicting results. LRCH1 is a 728 amino acid protein that is expressed at highest levels in cerebellum, with lower levels of expression in spinal cord, ovary, kidney and amygdala. In pigs, the gene encoding LRCH1 is one of 22 genes that is associated with leg and body conformation traits that affect productivity and health. There are two isoforms of LRCH1 that are expressed as a result of alternative splicing events.**Applications:** **WB** (1:500-2000)**IHC-P** (1:100-500)**IHC-F** (1:100-500)**IF** (1:50-200)**Reactivity:** Human, Mouse, Rat  
(predicted: Rabbit, Pig, Sheep, Cow, Chicken, Horse)**Predicted MW.:** 81 kDa**Subcellular Location:** Cytoplasm**— VALIDATION IMAGES —**

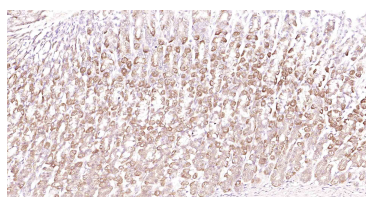
Sample: Spleen (Mouse) Lysate at 40 ug  
 Primary: Anti-LRCH1 (bs-9327R) at 1/300 dilution  
 Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution  
 Predicted band size: 81 kD  
 Observed band size: 81 kD



Sample: U251 Cell (Human) Lysate at 30 ug  
 Primary: Anti-LRCH1 (Bs- 9327R) at 1/300 dilution  
 Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution  
 Predicted band size: 81 kD  
 Observed band size: 81 kD



Paraformaldehyde-fixed, paraffin embedded Human Cerebellum; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with LRCH1 Polyclonal Antibody, Unconjugated (bs-9327R) at 1:200 overnight at 4°C, followed by conjugation to the SP Kit (Rabbit, SP-0023) and DAB (C-0010) staining.



Paraformaldehyde-fixed, paraffin embedded Rat Stomach; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with LRCH1 Polyclonal Antibody,

**Important Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Unconjugated (bs-9327R) at 1:200 overnight at 4°C, followed by conjugation to the SP Kit (Rabbit, SP-0023) and DAB (C-0010) staining.

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## — SELECTED CITATIONS —

- **[IF=5.7]** Chen WK et al. Leucine rich repeats and calponin homology domain containing 1 inhibits microglia-mediated neuroinflammation in a rat traumatic spinal cord injury model. Journal of Neuroinflammation.2019. WB ;Rat. DOI:10.21203/rs.2.18899/v1
- **[IF=5.793]** Wen-Kai Chen et al. Inhibition of leucine-rich repeats and calponin homology domain containing 1 accelerates microglia-mediated neuroinflammation in a rat traumatic spinal cord injury model. J Neuroinflammation . 2020 Jul 6;17(1):202. WB ;rat. 32631435