

**bs-2775R****[ Primary Antibody ]****LIMK1 Rabbit pAb****Bioss**  
**ANTIBODIES**

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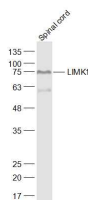
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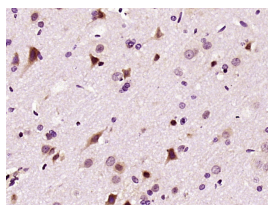
400-901-9800

**— DATASHEET —****Host:** Rabbit**Isotype:** IgG**Clonality:** Polyclonal**GeneID:** 3984**SWISS:** P53667**Target:** LIMK1**Immunogen:** KLH conjugated synthetic peptide derived from human LIMK1: 451-550/647.**Purification:** affinity purified by Protein A**Concentration:** 1mg/ml**Storage:** 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

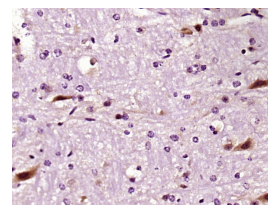
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

**Background:** LIMK1 is a protein kinase which regulates actin filament dynamics. Phosphorylates and inactivates the actin binding/depolymerizing factor cofilin, thereby stabilizing the actin cytoskeleton. LIMK1 may be involved in brain development; it is highly expressed in both adult and fetal nervous system. Detected ubiquitously throughout the different regions of adult brain, with highest levels in the cerebral cortex. Expressed to a lesser extent in heart and skeletal muscle.**Applications:** WB (1:500-2000)**IHC-P** (1:20-100)**IHC-F** (1:20-100)**IF** (1:20-100)**Flow-Cyt** (1ug/Test)**Reactivity:** Human, Mouse, Rat  
(predicted: Rabbit, Cow)**Predicted  
MW.:** 71 kDa**Subcellular  
Location:** Cytoplasm ,Nucleus**— VALIDATION IMAGES —**

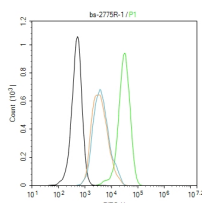
Sample: Spinal cord (Mouse) Lysate at 40 ug  
 Primary: Anti-LIMK1 (bs-2775R) at 1/1000  
 dilution Secondary: IRDye800CW Goat Anti-  
 Rabbit IgG at 1/20000 dilution Predicted band  
 size: 71 kD Observed band size: 75 kD



Paraformaldehyde-fixed, paraffin embedded  
 (Rat 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 (LIMK1) Polyclonal Antibody,  
 Unconjugated (bs-2775R) at 1:400 overnight at  
 4°C, followed by a conjugated secondary  
 antibody (sp-0023) for 20 minutes and DAB  
 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  
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 Unconjugated (bs-2775R) at 1:400 overnight at  
 4°C, followed by a conjugated secondary  
 antibody (sp-0023) for 20 minutes and DAB  
 staining.



Blank control (black line) :Hela. Primary  
 Antibody (green line): Rabbit Anti-LIMK1  
 antibody (bs-2775R) Dilution:1ug/Test;  
 Secondary Antibody (white blue line) : Goat  
 anti-rabbit IgG-FITC Dilution: 0.5ug/Test. Isotype  
 control (orange line) : Normal Rabbit IgG

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

Protocol The cells were fixed with 4% PFA (10min at room temperature) and then permeabilized with 90% ice-cold methanol for 20 min at -20°C. The cells were then incubated in 5% BSA to block non-specific protein-protein interactions for 30 min at room temperature. Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

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## — SELECTED CITATIONS —

- **[IF=3.29]** Zhou et al. MiR-20a inhibits cutaneous squamous cell carcinoma metastasis and proliferation by directly targeting LIMK1. (2014) Cancer.Biol.Ther. 15:1340-9 WB ;Human. 25019203
- **[IF=2.894]** Wufuer R et al. Downregulation of Rac1/PAK1/LIMK1/cofilin signaling pathway in colon cancer SW620 cells treated with Chlorin e6 photodynamic therapy Photodiagnosis Photodyn Ther.2020 Dec 8;102143. WB ;Human. 33307230
- **[IF=2.8]** Hongwei Li. et al. Integrated transcriptomic and proteomic analyses reveal the effects of chronic benzene exposure on the central nervous system in mice. TOXICOL MECH METHOD. 2024 八月 09 IHC ;Mouse. 39099385