

Anti-LIMK1 Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse,Rat (predicted:Cow,Rabbit)
Molecular Weight:	Theoretical: 71 kDa. Actual: 75 kDa.
Purification:	Protein A purified

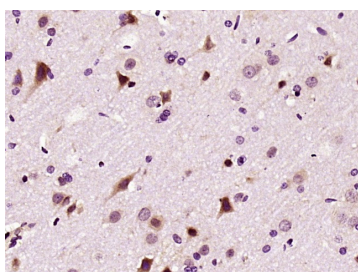
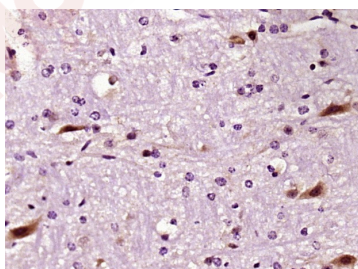
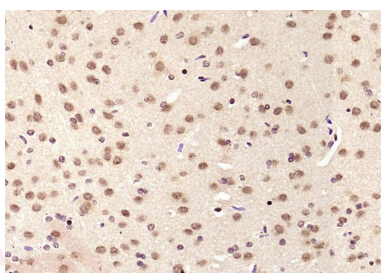
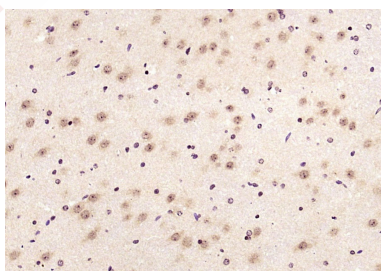
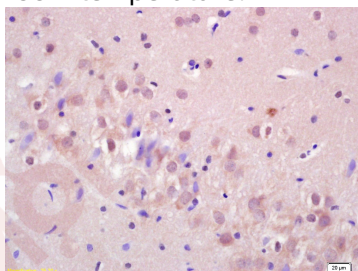
Applications

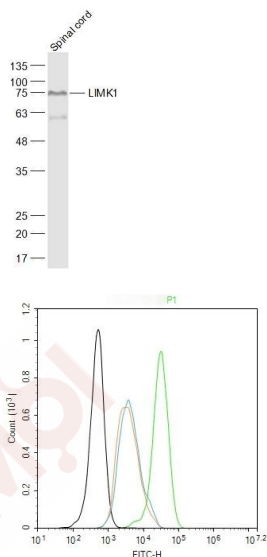
1. Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH6.0), Boiling bathing for 15 min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30 min; Blocking buffer (normal goat serum) at 37°C for 20 min; Incubation: Anti-LIMK1 Polyclonal Antibody, Unconjugated (TMAB-01070) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody and DAB staining.
2. Paraformaldehyde-fixed, paraffin embedded (mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (LIMK1) Polyclonal Antibody, Unconjugated (TMAB-01070) at 1:200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.
3. Paraformaldehyde-fixed, paraffin embedded (rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (LIMK1) Polyclonal Antibody, Unconjugated (TMAB-01070) at 1:200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.
4. Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (LIMK1) Polyclonal Antibody, Unconjugated (TMAB-01070) at 1:400 overnight at 4°C, followed by a conjugated secondary antibody for 20 min and DAB staining.
5. Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (LIMK1) Polyclonal Antibody, Unconjugated (TMAB-01070) at 1:400 overnight at 4°C, followed by a conjugated secondary antibody for 20 min and DAB staining.
6. Sample:
Spinal cord (Mouse) Lysate at 40 µg
Primary: Anti-LIMK1 (TMAB-01070) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 71 kDa
Observed band size: 75 kDa
7. Blank control (black line): HeLa.
Primary Antibody (green line): Rabbit Anti-LIMK1 antibody (TMAB-01070)
Dilution: 1 µg/Test;
Secondary Antibody (white blue line): Goat anti-rabbit IgG-FITC
Dilution: 0.5 µg/Test.
Isotype control (orange line): Normal Rabbit IgG

Verified Activity:

Protocol

The cells were fixed with 4% PFA (10 min 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.





Application: FCM,IF,IHC-Fr,IHC-P,WB

Recommended WB: 1:500-2000; IHC-P: 1:20-100; IHC-Fr: 1:20-100; IF: 1:20-100; FCM: 1ug/Test

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: KLH conjugated synthetic peptide: human LIMK1

Antigen Species: Human

Gene ID: 3984

Uniprot ID: P53667

Synonyms: LIM domain kinase 1;LIM domain kinase 2;LIM motif-containing protein kinase;LIMK-2;EC 2.7.11.1;LIMK2;LIMK-1;LIMK

Biology Area: Signal transduction,LIM,Neural Signal Transduction

Research 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.

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