

## Anti-Profilin 1 Polyclonal Antibody

### Product Details

|                   |   |
|-------------------|---|
| Ig Type:          | IgG                                       |
| Reactivity:       | Human,Mouse,Rat (predicted:Dog,Cow,Horse) |
| Molecular Weight: | Theoretical: 15 kDa. Actual: 15 kDa.      |
| Purification:     | Protein A purified                        |

### Applications

1. Tissue/cell: Rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01 M, pH 6.0), 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-PFN1 Polyclonal Antibody, Unconjugated (TMAB-11768) 1:500, overnight at 4°C, followed by conjugation to the secondary antibody and DAB staining
  2. Sample: Lymph node (Mouse) Lysate at 30 µg  
Primary: Anti-Profilin 1 (TMAB-11768) at 1/300 dilution  
Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/10000 dilution  
Predicted band size: 15 kD  
Observed band size: 15 kD
  3. Blank control: A431.  
Primary Antibody (green line): Rabbit Anti-Profilin 1 antibody (TMAB-11768)  
Dilution: 1 µg /10<sup>6</sup> cells;
- Verified Activity: Isotype Control Antibody (orange line): Rabbit IgG.  
Secondary Antibody: Goat anti-rabbit IgG-AF647  
Dilution: 1 µg /test.  
Protocol  
The cells were fixed with 4% PFA (10 min at room temperature) and then permeabilized with 0.1% PBST for 20 min at room temperature. 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.- 4. Paraformaldehyde-fixed, paraffin embedded (Human kidney); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (Profilin 1) Polyclonal Antibody, Unconjugated (TMAB-11768) at 1: 200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.

## A DRUG SCREENING EXPERT

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

Recommended WB: 1:500-2000; IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500; FCM: 3µg/Test

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### Properties

Stability & Storage: Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

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### Antigen Details

Immunogen: KLH conjugated synthetic peptide: human Profilin 1

Antigen Species: Human

Gene ID: 5216

Uniprot ID: P07737

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### Research Background

Profilin 1 is a ubiquitous actin monomer-binding protein involved in actin polymerization in response to extracellular signals. Three profilin genes have been identified: profilin 1, 2, and 3. Profilin 1 is the most ubiquitous and abundant, and is highly expressed throughout development and adulthood in most tissues including brain. Profilin 2 is the neuronal specific isoform and profilin 3 is a testis specific isoform. Profilins of eukaryotic cells are small (12-15 kDa) cytoplasmic proteins that bind to actin monomers, polyphosphoinositides and polymers of L-proline. Profilins were shown to be important for normal cell proliferation, differentiation and motility. Deletion of profilin 1 gene leads to an embryonic lethal phenotype.

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