

Anti-presenilin 1 Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Human, Mouse, Rat (predicted: Dog, Pig, Cow, Rabbit)
Molecular Weight:	Theoretical: 34/52 kDa. Actual: 50 kDa.
Purification:	Protein A purified

Applications

1. Sample:

Lane 1: Mouse Brain Lysates

Lane 2: Mouse Spinal cord Lysates

Lane 3: Mouse Testis Lysates

Lane 4: Rat Spinal cord Lysates

Lane 5: Rat Testis Lysates

Lane 6: Human U251 cell Lysates

Lane 7: Human SH-SY5Y cell Lysates

Lane 8: Human MCF-7 cell Lysates

Lane 9: Human THP-1 cell Lysates

Lane 10: Human U-87 MG cell Lysates

Primary: Anti-presenilin 1 (TMAB-11729) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 34/52 kDa

Observed band size: 50 kDa

2. Sample:

K562 Cell (Human) Lysate at 40 µg

HepG2 Cell (Human) Lysate at 40 µg

Primary: Anti-presenilin 1 (TMAB-11729) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 34/52 kD

Observed band size: 50 kD

3. Sample: K562 Cell Lysate at 40 µg

Primary: Anti-presenilin1 (TMAB-11729) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 34/52 kD

Observed band size: 48 kD

4. 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 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (presenilin 1) Polyclonal Antibody, Unconjugated (TMAB-11729) at 1:400 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.

5. SH-SY5Y cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum) at 37°C for 20 min; Antibody incubation with (presenilin 1) polyclonal Antibody, Unconjugated (TMAB-11729) 1:100, 90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue) was used to stain the cell nuclei.

Verified Activity:

6. Blank control: Raji.

Primary Antibody (green line): Rabbit Anti-presenilin 1 antibody (TMAB-11729)

Dilution: 1 µg /10⁶ cells;

Isotype Control Antibody (orange line): Rabbit IgG.

Secondary Antibody: Goat anti-rabbit IgG-PE

Dilution: 1 µg /test.

Protocol

The cells were fixed with 4% PFA (10 min at room temperature) and then permeabilized with 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.

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

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

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.

Antigen Details

Immunogen: KLH conjugated synthetic peptide: human Presenilin-1 NTF subunit

Antigen Species: Human

Gene ID: 5663

Uniprot ID: P49768

Research Background

Alzheimer's disease (AD) patients with an inherited form of the disease carry mutations in the presenilin proteins (PSEN1; PSEN2) or in the amyloid precursor protein (APP). These disease-linked mutations result in increased production of the longer form of amyloid-beta (main component of amyloid deposits found in AD brains). Presenilins are postulated to regulate APP processing through their effects on gamma-secretase, an enzyme that cleaves APP. Also, it is thought that the presenilins are involved in the cleavage of the Notch receptor, such that they either directly regulate gamma-secretase activity or themselves are protease enzymes. Several alternatively spliced transcript variants encoding different isoforms have been identified for this gene, the full-length nature of only some have been determined. [provided by RefSeq, Aug 2008]

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