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### **Anti-Human Growth Associated Protein-43 (GAP-43) Polyclonal Antibody**

**CL7794AP**  
**CL7794AP-S**  
**Lot: 189421**

#### **DESCRIPTION:**

GAP43 (also known as neuromodulin) is considered a "growth" or "plasticity" protein because it is expressed at high levels in neuronal growth cones during development and axonal regeneration, and it is phosphorylated after long-term potentiation and after learning. It is a nervous tissue-specific protein that localizes to the cytoplasm of neurons and attaches to the membrane via a dual palmitoylation sequence on cysteines 3 and 4. GAP-43 is a major protein kinase C (PKC) substrate.

A null mutation of GAP-43 leads to death within days after birth, due to axon pathfinding defects. Additionally, aberrant expression of GAP43 has been seen in patients diagnosed with schizophrenia and Alzheimer's disease.

#### **PRESENTATION:**

100 µg (**CL7794AP**) or 20 µg (**CL7794AP-S**) purified IgG (1 mg/ml) buffered in PBS and 0.02% NaN<sub>3</sub>. (Purified from serum via Affinity Chromatography). For maximum recovery of contents, spin down tube before use.

#### **STORAGE/STABILITY:**

Store at + 4°C. For long term storage, aliquot and freeze unused portion at -20°C in volumes appropriate for single usage. Avoid freeze/thaw cycles.

#### **SPECIFICATION:**

Immunogen: 15 amino acid synthetic peptide located near the N-terminus of human GAP-43.

Specificity: This antibody is specific for human and mouse GAP-43.

IgG Class: Rabbit IgG

Application: This antibody is suitable for use in Western Blot (1 – 3 µg/mL). This antibody has not been tested in other applications.

*Continued....*

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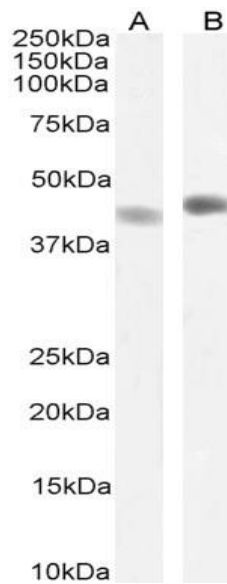
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## **TEST RESULTS:**

### **Western Blot:**



CL7794AP (1 $\mu$ g/ml) staining of human brain (cerebellum) (A) and mouse brain (B) lysates (35 $\mu$ g protein in RIPA buffer). Detected by chemiluminescence.

**N.B.** Appropriate control samples should always be included in any labeling studies.

\* For optimal results in various applications, it is recommended that each investigator determine dilutions appropriate for individual use.

### **REFERENCES:**

1. Rosskothén-Kuhl N, Illing RB (2014). Gap43 Transcription Modulation in the Adult Brain Depends on Sensory Activity and Synaptic Cooperation. PLoS ONE. 9 (3): e92624.
2. Mackie Ogilvie C, Rooney SC, Hodgson SV, Berry AC (1998). Deletion of chromosome 3q proximal region gives rise to a variable phenotype. Clinical Genetics. 53 (3): 220–2.

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