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## Anti-Human Substance P Polyclonal Antibody

**CL7793AP**  
**CL7793AP-S**  
**Lot: 189321**

### **DESCRIPTION:**

Substance P (SP) is a short polypeptide (11 aa) member of the tachykinin neuropeptide family that acts as a neurotransmitter and neuromodulator. It is generated along with other tachykinins, by processing of preprotachykinin isoforms. Substance P is mainly secreted from C-type fibers of primary sensory afferent neurons and is involved in the regulation of mood, anxiety, sleep, satiety, reinforcement, respiratory rhythm and pain processing. The endogenous receptor for Substance P is neurokinin 1 receptor (NK1 receptor), which belongs to the tachykinin receptor sub-family of GPCRs.

### **PRESENTATION:**

100 µg (CL7793AP) or 20 µg (CL7793AP-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:** 11 aa human substance P peptide.

**Specificity:** This antibody is specific for human substance P. Predicted to react with mouse and rat substance P based on sequence identity.

**IgG Class:** Goat IgG

**Application:** This antibody is suitable for use in ELISA (1:16K – 1:32K dilution).

### **REFERENCES:**

1. Harrison S, Geppetti P. (2001) Substance p. Int J Biochem Cell Biol. 33(6):555-76.
2. Datar P, et al. (2004) Substance P: structure, function, and therapeutics. Curr Top Med Chem. 4(1):75-103.

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