



## Antibody Specification Sheet

### Anti-Human Nerve Growth Factor (hNGF) - Purified

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Catalog reference: AS21-P

Size: 0.5 mg

#### Antibody Information:

**Antigen:** human recombinant nerve growth factor (hNGF).

**Ig Class:** mIgG1

**Form:** purified

**Specificity:** recognizes human and mouse 2.5S, 7S &  $\beta$ NGF. The epitope has been localized to aa 46-62 of hNGF.

**Antibody Source:** monoclonal antibody from BALB/c-derived hybridomas.

**Production:** *in vitro* cell culture.

**Purification:** Protein A agarose chromatography.

**Purity:**  $\geq 95\%$ .

**Formulation:** provided as a 0.2  $\mu$ m sterile-filtered solution

in Ca<sup>++</sup> & Mg<sup>++</sup> free Dulbecco's PBS.

**Concentration:** 1 mg/ml.

**Recommendations:** ELISA for mouse NGF and Neutralization.

**Storage conditions:** store undiluted at 4 °C or in aliquots at  $\leq -20$  °C.

#### Applications:

**Elisa:** This antibody has been used as a coating antibody at 10  $\mu$ g/ml in a two site ELISA with AS18-B for mouse NGF. Typically for mouse NGF, the ELISA has a working range of 0.1 -15 ng/ml and a sensitivity of <0.05 ng/ml with the appropriate standard. Recommended sample volumes are 25-200  $\mu$ l. Recovery of human NGF in human plasma is typically > 90% in the ELISA.

The use of Tris buffer, pH 7, is recommended. (Kenney, JS, Masada, MP, and Allison AC, *Laboratory Methods in Immunology*, Vol. I, 231, 1990).

**Neutralization:** This antibody has been used to neutralize > 90% human NGF bioactivity on PC12 cells at a 200-fold molar excess.

FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES

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