### DATASHEET
#### Rat Anti-Mouse Nerve Growth Factor (NGF)

**PRODUCT NAME**
Nerve Growth Factor (NGF) antibody

**BACKGROUND INFORMATION**
Nerve growth factor (NGF) is a small secreted protein which induces the differentiation and survival of particular target neurons. It is perhaps the prototypical growth factor; in that it is one of the first to be described. NGF is critical for the survival and maintenance of sympathetic and sensory neurons. NGF is released from the target cells, binds to and activates its high affinity receptor (TrkA), and is internalized into the responsive neuron. There is some data that shows that NGF can be transported from the axon tip to soma. One of the most important molecules in the nervous system, nerve growth factor and its other neurotrophin family members control the development of the nervous system in the embryo and the maintenance of nervous tissue and neural transmission in the adult.

**PRODUCT DESCRIPTION**
A sensitive antibody against Nerve Growth Factor.

**FORMAT**
100 µl of lyophilized, purified antibody. **Reconstitute in 200 µl of H2O.** It contains no additives.

**HOST**
Rat

**CLONALITY**
Monoclonal

**ISOTYPE**
IgG2a

**REACTIVITY / SPECIFICITY**
This antibody recognizes mouse NGF monomer protein (MW 13 kDa) by WB. It does not cross react with EGF, BSA, APO or insulin. Specific for: mouse; other species not tested.

**APPLICATIONS**
Western blot (WB), Immunofluorescence (IF), ELISA (E).

**RECOMMENDED STARTING DILUTIONS**
If reconstituted in 200 µl: WB 1:100. Optimal dilution has to be determined by the user.

**STORAGE**
Lyophilized antibody can be kept at 4°C for up to 3 months and should be kept at -20°C for long-term storage. To avoid freeze-thaw cycles, reconstituted antibody should be aliquoted before freezing for short-term storage (-20°C) or for long-term storage (-80°C). For maximum recovery of product, centrifuge the original vial prior to removing the cap. Further dilutions can be made in assay buffer.

**STABILITY**
Minimum 1 year from reception date.

**REFERENCES**


LIMITATIONS

This product is to be used for research purposes only.