ANTI-HUMAN GLIAL CELL LINE-DERIVED NEUROTROPHIC FACTOR (GDNF)
Developed in Goat IgG Fraction of Antiserum

Product No.  G 8035

Product Description
Anti-Human Glial Cell Line-derived Neurotrophic Factor was developed in goat using recombinant, human glial cell line-derived neurotrophic factor (rhGDNF), expressed in E. coli, as the immunogen. The product is purified by Protein G affinity chromatography. Goat Anti-Human GDNF is provided lyophilized from phosphate buffered saline, to which no preservatives have been added.

GDNF is a 20 kDa glycosylated polypeptide that exists as a homodimer. The gene for GDNF has been mapped to human chromosome 5. There is significant sequence homology between rat and human GDNF. GDNF stimulates the growth of dopaminergic neurons and autonomic motor neurons. Recombinant GDNF is expressed in E. coli from a DNA sequence encoding the protein.

Product Profile
Anti-Human GDNF is tested for its ability to neutralize the biological activity of rhGDNF on embryonic chick dorsal root ganglia neurons. The ND50 of the antibody is defined as the concentration of antibody resulting in a one-half maximal inhibition of bioactivity of rhGDNF, when rhGDNF is present at a concentration just high enough to elicit a maximum response.

Formulation: Lyophilized from PBS without additives.
Endotoxin: ≤10 ng/vial by LAL method
Bioactivity: ND50 = 1-10 µg/ml
Indirect ELISA: 1 µg/ml antibody detects 0.2 ng/well of rhGDNF
Indirect Immunoblotting: 2 µg/ml antibody detects rhGDNF at 1.0 ng/lane under both reducing and non-reducing conditions
Sterility: 0.2 µm-filtered, aseptic fill

Reconstitution and Use
To one vial of lyophilized powder, add 1 ml of 0.2 µm-filtered PBS to produce a 1.0 mg/ml stock solution of Anti-Human GDNF. If aseptic technique is used, no further filtration should be needed for use in cell culture environments.

Storage
Prior to reconstitution, store at –20 °C. Reconstituted product may be stored at 2-8 °C for no more than one month. For prolonged storage, freeze in working aliquots at –20 °C. Avoid repeated freezing and thawing.

References