

Monoclonal *Anti-human NGFI-B α /NR4A1 Antibody*

ORDERING INFORMATION

Catalog Number: PP-H1648-00

Clone: H1648

GenBank: L13740

Ig Class: mouse IgG_{2A}

Volume: 100 μ L

Concentration: 1 mg/mL

Formulation: A liquid formulation in physiologic saline with 0.1% NaN₃

Storage: $\leq -20^{\circ}\text{C}$

Specificity: human NGFI-B α

Applications: Western Blot
Direct ELISA
Immunoprecipitation

Description

Nerve growth factor inducible factor I-B alpha (NGFI-B α , Nur77, TR3, HMR; NR4A1) is a member of the Orphan Nuclear Receptor family. NGFI-B α is expressed in the brain, adrenals, thyroid, liver, testis, ovary, thymus, muscle, lung and prostate. Its expression is induced in response to various stress stimuli and growth factors. NGFI-B α is involved in mediating apoptotic signaling in thymocytes and tumor cells, as well as having a role in signaling in the hypothalamic-pituitary axis. RXR has been shown to be a partner for NGFI-B α .

Preparation

Produced in BALB/c mouse ascites inoculated with a hybridoma of spleen cells of a BALB/c mouse immunized with recombinant human NGFI-B α (amino acids 2 - 249) and mouse myeloma cells (NS-1). The IgG fraction of ascites fluid was purified by ammonium sulfate fractionation.

Formulation

A liquid formulation in physiologic saline with 0.1% NaN₃.

Storage

This antibody is stable for greater than six months when held at -20°C in a **manual defrost freezer** or at -70°C . Upon thawing, the antibody can be stored at $2-8^{\circ}\text{C}$ for at least 1 month without detectable loss of activity. **Avoid repeated freeze-thaw cycles.**

Specificity

This antibody specifically recognizes human NGFI-B α but does not recognize NGFI-B β and γ . Not yet tested in other species.

Applications

Western Blot - This antibody can be used at 1 $\mu\text{g/mL}$ with the appropriate secondary reagents to detect human NGFI-B α .

Direct ELISA - This antibody can be used at 0.3 $\mu\text{g/mL}$ with the appropriate secondary reagents to detect human NGFI-B α .

Immunoprecipitation - Optimal dilutions should be determined by each laboratory.

Optimal dilutions should be determined by each laboratory for each application.

Caution: Sodium azide may react with lead and copper plumbing to form explosive metal azides. Flush with large amounts of water during disposal.



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