

Monoclonal ***Anti-human NGFI-B β /Nurr1/NR4A2 Antibody***

ORDERING INFORMATION

Catalog Number: PP-N1404-00

Clone: N1404

GenBank: NM_173173

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 β

Applications: Western Blot
Direct ELISA
Immunohistochemistry
Immunoprecipitation

Description

Nerve Growth Factor-Induced-B beta (NGFI-B β , Nurr1, NOT, RNR1, HZF-3; NR4A2) is a member of the Orphan Nuclear Receptor family. It is expressed in the liver, pituitary, thymus, and osteoblasts. Transcription is enhanced in synovial tissue of RA patients compared with normal individuals. Induction of this receptor occurs downstream to multiple inflammatory mediators. Mice lacking the gene failed to generate brain dopaminergic neurons, which may relate to Parkinson's disease.

Preparation

Produced in BALB/c mouse ascites after inoculation with a hybridoma of mouse myeloma cells (NS-1) and spleen cells derived from a BALB/c mouse immunized with recombinant human NGFI-B β (amino acids 2 - 248). The IgG fraction of the mouse ascites was purified by ammonium sulfate purification.

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 β and cross-reacts with mouse and rat NGFI-B β . This antibody does not recognize human NGFI-B α or NGFI-B γ . Not yet tested in other species.

Applications

Western Blot - This antibody can be used at 1 $\mu\text{g/mL}$ under reducing conditions and at 3 $\mu\text{g/mL}$ under non-reducing conditions with the appropriate secondary reagents to detect human NGFI-B β .

Direct ELISA - Optimal dilutions should be determined by each laboratory.

Immunohistochemistry - This antibody can be used at 10 $\mu\text{g/mL}$ with the appropriate secondary reagents to detect human NGFI-B β .

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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