

Monoclonal Anti-human GR common/NR3C1 Antibody

ORDERING INFORMATION

Catalog Number: PP-H8031-00

Clone: H8031

GenBank: X03225

Ig Class: mouse IgG_{2A}

Volume: 100 µL

Concentration: 1 mg/mL

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

Storage: ≤ -20 °C

Specificity: human GR

Applications: Western Blot
Direct ELISA
Immunohistochemistry
Immunoprecipitation

Description

Glucocorticoid Receptor (GR; NR3C1) is a member of the Steroid Receptor family. It is expressed in almost all human tissues and organs. It binds to its sequences as a homodimer. Two different forms, GR α and GR β , differing in their C-terminal parts, have been isolated. GR α is the classic GR that binds to glucocorticoids and transactivates or transrepresses glucocorticoid-responsive promoters. GR β does not bind glucocorticoids.

Preparation

Produced in BALB/c mouse ascites inoculated with a hybridoma of spleen cells of a BALB/c mouse immunized with recombinant human GR α (amino acids 2 - 60) and mouse myeloma cells (NS-1). The IgG fraction of the 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 °C for at least 1 month without detectable loss of activity. **Avoid repeated freeze-thaw cycles.**

Specificity

This antibody specifically recognizes human GR α and GR β and cross-reacts with mouse and rat GR α and GR β . Not yet tested in other species.

Applications

Western Blot - This antibody can be used at 1 µg/mL under reducing conditions with the appropriate secondary reagents to detect human GR.

Direct ELISA - This antibody can be used at 0.3 µg/mL with the appropriate secondary reagents to detect human GR.

Immunohistochemistry - This antibody can be used at 10 µg/mL with the appropriate secondary reagents to detect human GR.

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.



Manufactured by:

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