

Monoclonal Anti-human RXR α /NR2B1 Antibody

ORDERING INFORMATION

Catalog Number: PP-K8508-00

Clone: K8508

GenBank: X52773

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 RXR α

Applications: Western Blot
Direct ELISA
Supershift Assay
Immunohistochemistry
Immunoprecipitation

Description

Retinoid X Receptor alpha (RXR α ; NR2B1) is a member of the Orphan Nuclear Receptor family. 9-cis retinoic acid can bind to RXR. RXR α is expressed in the liver, muscle, lung, kidney, intestine, heart, and spleen. RXR α plays roles in a variety of processes including embryonic patterning, organogenesis, cell proliferation, and differentiation. RXRs commonly function as heterodimers with other members of the nuclear receptor family.

Preparation

Produced in BALB/c mouse ascites inoculated with a hybridoma of spleen cells of a BALB/c mouse immunized with recombinant human RXR α (amino acids 2 - 133) 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 $2-8^{\circ}\text{C}$ for at least 1 month without detectable loss of activity. **Avoid repeated freeze-thaw cycles.**

Specificity

This antibody specifically recognizes human RXR α and cross-reacts with mouse and rat RXR α . This antibody does not cross-react with human RXR β or human RXR γ . Not yet tested in other species.

Applications

Western Blot - This antibody can be used at 2 $\mu\text{g/mL}$ under reducing conditions with the appropriate secondary reagents to detect human RXR α .

Direct ELISA - This antibody can be used at 0.1 $\mu\text{g/mL}$ with the appropriate secondary reagents to detect human RXR α .

Supershift Assay - Optimal dilutions should be determined by each laboratory.

Immunohistochemistry - This antibody can be used at 10-20 $\mu\text{g/mL}$ with the appropriate secondary reagents to detect human RXR 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.



Manufactured by:
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