

Monoclonal Anti-human COUP-TF I/NR2F1 Antibody

ORDERING INFORMATION

Catalog Number: PP-H8132-00

Clone: H8132

GenBank: X12795

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 COUP-TF I

Applications: Western Blot
Direct ELISA
Immunohistochemistry
Immunoprecipitation

Description

Chicken Ovalbumin Upstream Promoter Transcription Factor I (COUP-TF I, EAR3, COUP-TFA; NR2F1) is a member of the Orphan Nuclear Receptor family. COUP-TF I is expressed in specific regions of the rostral brain. COUP-TF I has varied roles in the development of the peripheral nervous system, such as early regionalization of the neocortex, differentiation of subplate neurons and guidance of thalamocortical axons. COUP-TFs were shown to interact with a number of other nuclear receptors.

Preparation

Produced in BALB/c mouse ascites inoculated with a hybridoma of spleen cells of a BALB/c mouse immunized with recombinant human COUP-TF I (amino acids 6 - 81) 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 COUP-TF I and cross-reacts with mouse and rat COUP-TF I. It does not cross-react with human COUP-TF II and EAR2. 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 COUP-TF I.

Direct ELISA - This antibody can be used at 0.1 µg/mL with the appropriate secondary reagents to detect human COUP-TF I.

Immunohistochemistry - This antibody can be used at 10-50 µg/mL with the appropriate secondary reagents to detect human COUP-TF I.

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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