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Store at -20C
#6364

COUP-TFI (D4H2) Rabbit mAb

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W, IP	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 47	Source/Isotype: Rabbit IgG	UniProt ID: #P10589	Entrez-Gene Id: 7025
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Product Usage Information

Application

Western Blotting
Immunoprecipitation

Dilution

1:1000
1:100

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

COUP-TFI (D4H2) Rabbit mAb recognizes endogenous levels of total COUP-TFI protein. The antibody does not cross-react with COUP-TFII protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gln165 of human COUP-TFI protein.

Background

Chicken ovalbumin upstream promoter transcription factor (COUP-TF) belongs to the NR2 subfamily of the nuclear hormone receptor family (1). COUP-TFI and COUP-TFII are two of the well-characterized members in the NR2 subfamily. These two members are highly conserved in their two zinc-finger DNA binding domains (DBD) and the ligand binding domain (LBD), and function as repressors or activators of downstream target genes to regulate different biological processes (1-3). COUP-TFI and II bind to 5'-AGGTCA-3' motif palindromes, either directly or indirectly, through heterodimer formation with other proteins (e.g. RXRs) to regulate downstream target gene expression (4,5). COUP-TFI is involved in neuronal development, tissue patterning, and differentiation (6-8). COUP-TFII has been shown to be involved in angiogenesis, glucose homeostasis, and mesenchymal cell commitment (9-12).

Background References

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3. Lin, F.J. et al. (2011) *Endocr Rev* 32, 404-21.
4. Cooney, A.J. et al. (1992) *Mol Cell Biol* 12, 4153-63.
5. Montemayor, C. et al. (2010) *PLoS One* 5, e8910.
6. Zhou, C. et al. (2001) *Genes Dev* 15, 2054-9.
7. Alfano, C. et al. (2011) *Development* 138, 4685-97.
8. Faedo, A. et al. (2008) *Cereb Cortex* 18, 2117-31.
9. Li, L. et al. (2009) *Cell Metab* 9, 77-87.
10. Pereira, F.A. et al. (1999) *Genes Dev* 13, 1037-49.
11. Qin, J. et al. (2010) *Cancer Res* 70, 8812-21.
12. Xie, X. et al. (2011) *Proc Natl Acad Sci U S A* 108, 14843-8.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **IP:** Immunoprecipitation

Cross-Reactivity Key

H: Human **M:** Mouse **R:** Rat

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