

**COUP-TFII (D16C4) Rabbit mAb**

**Orders:** 877-616-CELL (2355)  
orders@cellsignal.com

**Support:** 877-678-TECH (8324)

**Web:** info@cellsignal.com  
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

<b>Applications:</b> W, IP	<b>Reactivity:</b> H M R	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 47	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #P24468	<b>Entrez-Gene Id:</b> 7026
-------------------------------	-----------------------------	-----------------------------------	------------------------	--------------------------------------	-------------------------------	--------------------------------

**Product Usage Information****Application**

Western Blotting  
Immunoprecipitation

**Dilution**

1:1000  
1:50

**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-TFII (D16C4) Rabbit mAb detects endogenous levels of total COUP-TFII protein. The antibody does not cross-react with COUP-TFI protein.

**Source / Purification**

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gln158 of human COUP-TFII 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**

1. Tsai, S.Y. and Tsai, M.J. (1997) *Endocr Rev* 18, 229-40.
2. Park, J.I. et al. (2003) *Keio J Med* 52, 174-81.
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

**Trademarks and Patents**

Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.

All other trademarks are the property of their respective owners. Visit [cellsignal.com/trademarks](http://cellsignal.com/trademarks) for more information.

**Limited Uses**

Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's

terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no force or effect.

Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.