abcam

ab181137

Anti-COUP TF1 antibody [EPR10841]

Anti-COUP TF1 antibody [EPR10841] (ab181137) is a rabbit monoclonal antibody detecting COUP TF1 in **Western Blot, Flow Cytometry (Intra), IHC-P, ICC/IF**. Suitable for **Human, Mouse, Rat**.

- Biophysical QC for unrivalled batch-batch consistency
- Over 10 publications

Recombinant | RabMAb | 20ul selling size

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Clone number	EPR10841
Purification technique	Affinity purification Protein A
Concentration	0.485 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IHC-P

Tested

Species	Human
Dilution info	1/100 - 1/250
Notes	-

Not recommended

Species	Mouse, Rat
Dilution info	-
Notes	-

WB

Tested

Species	Mouse
Dilution info	1/1000
Notes	-

Species	Rat
Dilution info	1/1000
Notes	-

Species	Human
Dilution info	1/1000
Notes	-

ICC/IF

Tested

Species	Human
Dilution info	1/100 - 1/250
Notes	-

Expected

Species	Mouse, Rat
Dilution info	Use at an assay dependent concentration.
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	1/500
Notes	ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody. For unpurified use at 1/70.

Expected

Species	Mouse, Rat
Dilution info	Use at an assay dependent concentration.
Notes	-

Target data

See full target information NR2F1

Function	Coup (chicken ovalbumin upstream promoter) transcription factor binds to the ovalbumin promoter and, in conjunction with another protein (S300-II) stimulates initiation of transcription. Binds to both direct repeats and palindromes of the 5'-AGGTCA-3' motif. Represses transcriptional activity of LHCG.

Storage

Shipped at conditions	Conditional Ambient
Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C

Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Notes

What is this antibody validated in?
Anti-COUP TF1 antibody [EPR10841] (ab181137) is a rabbit recombinant monoclonal antibody and is validated for use in Western Blot (WB), Flow Cytometry (Intra), Flow Cytometry (Flow Cyt), Immunohistochemistry (IHC-P), Immunocytochemistry/immunofluorescence (ICC/IF) in Human, Mouse, Rat samples.

What is the molecular weight of COUP TF1?
Anti-COUP TF1 [EPR10841] (ab181137) specifically detects a band for COUP TF1 (UniProt: P10589) at a molecular weight of 46kDa.

Trusted by the scientific community
Anti-COUP TF1 [EPR10841] (ab181137) was first used in a scientific publication in 2014 and has been cited over 10 times in peer-reviewed journals.

Other related products
We have a range of other formats of antibody clone [EPR10841] also available for your convenience: ab181137, Alexa Fluor® 488 - ab209462, Alexa Fluor® 647 - ab210038, Alexa Fluor® 555 - ab211712, Carrier free - ab224272, PE - ab303116, APC - ab303117, HRP - ab303118, Alkaline Phosphatase - ab308728, Alexa Fluor® 594 - ab310445, Alexa Fluor® 750 - ab321245

Trial sizes available!
Test your antibody or perform pre-screening before committing to a larger quantity. Sold in 20µl. Discover our selection of trial-size antibodies.

Patented technology
Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

What are the advantages of a recombinant monoclonal antibody?
This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free batch production

For more information, read more on recombinant antibodies.

Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary	COUP TF1 also known as COUP-TFI COUP-TF1 COUPF protein COUP 70 and counter COUP functions as a transcription factor. It belongs to the nuclear receptor family

	of proteins and has a molecular mass of approximately 47 kDa. This protein expresses in a variety of tissues including the central nervous system heart and developing organs. It plays a role in regulating gene expression through binding to DNA sequences ultimately controlling developmental processes and cellular differentiation.
Biological function summary	COUP TF1 influences numerous systems by regulating genes involved in neuronal development and organogenesis. This protein is a core component of transcription complexes interacting with other nuclear receptors and co-regulators to modulate its effects. The activity of COUP TF1 also extends to the regulation of neuronal subtype specification and synaptic connectivity signifying its importance in the central nervous system development.
Pathways	COUP TF1 participates in essential signaling cascades such as the Notch and retinoic acid pathways. It modulates the retinoic acid response by interacting with the retinoic acid receptor (RAR) thereby influencing cell differentiation and growth. Additionally COUP TF1 interacts with the Notch signaling pathway affecting neural lineage decisions and maintenance. Its link to other transcription factors and receptors highlights its integrative role in various cellular contexts.
Associated diseases and disorders	COUP TF1 alterations associate with cognitive and developmental disorders. Its dysregulation is implicated in conditions like mental retardation and schizophrenia. The protein's connection to disorders often involves its interaction with other proteins and signaling pathways such as those linked to neural development. COUP TF1's interplay with the retinoic acid receptor influences neurological traits and misregulation can contribute to disease progression.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

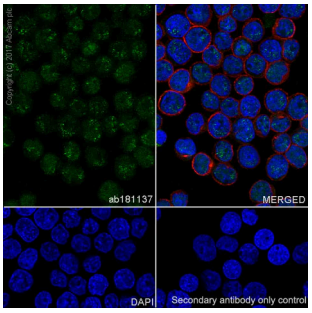
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

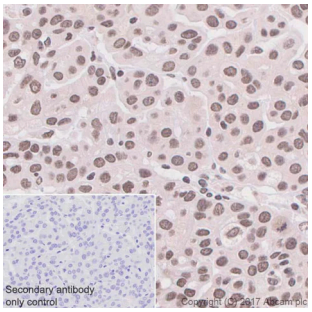
11 product images



Immunocytochemistry/ Immunofluorescence - Anti-COUP TF1 antibody [EPR10841] (ab181137)

COUP TF1 Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-COUP TF1 antibody

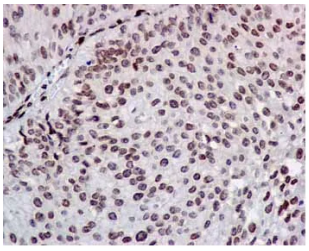
Immunocytochemistry/ Immunofluorescence analysis of Jurkat (Human T cell leukemia T lymphocyte) cells labeling Coup TF1 with Purified ab181137 at 1:100 dilution. Cells were fixed in 4% Paraformaldehyde and permeabilized with 0.1% tritonX-100. Cells were counterstained with ab195889 Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor ® 594) 1:200 (2.5 µg/ml). ab150077 Goat anti rabbit IgG(Alexa Fluor ® 488) was used as the secondary antibody at 1:1000 dilution. DAPI nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-COUP TF1 antibody [EPR10841] (ab181137)

COUP TF1 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-COUP TF1 antibody

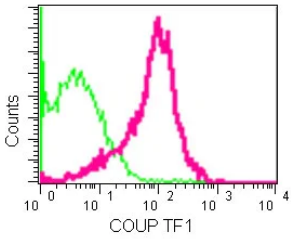
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human breast carcinoma tissue sections labeling COUP TF1 with Purified ab181137 at 1:100 dilution. Heat mediated antigen retrieval was performed using citrate buffer, pH6.0 . Tissue was counterstained with Hematoxylin. ImmunoHistoProbe one step HRP Polymer (ready to use) secondary antibody was used at 1:0 dilution. PBS instead of the primary antibody was used as the negative control.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-COUP TF1 antibody [EPR10841] (ab181137)

COUP TF1 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-COUP TF1 antibody

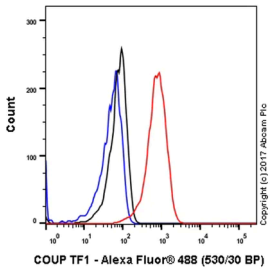
Immunohistochemical analysis of paraffin-embedded Human transitional cell carcinoma staining COUP TF1 using unpurified ab181137 at 1/100. Prediluted HRP Polymer for Rabbit IgG was used as a secondary antibody, and Hematoxylin for counterstaining.



Flow Cytometry (Intracellular) - Anti-COUP TF1 antibody [EPR10841] (ab181137)

COUP TF1 Flow Cytometry (Intracellular) staining using rabbit Anti-COUP TF1 antibody

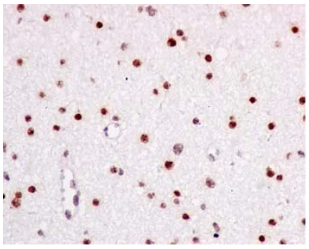
Intracellular flow cytometric analysis of COUP TF1 labeling 2% paraformaldehyde fixed 293 cells using unpurified ab181137 at 1/70 dilution (red), compared to a Rabbit monoclonal IgG isotype control (green). Goat anti rabbit IgG (FITC) secondary antibody was used at 1/150 dilution.



Flow Cytometry (Intracellular) - Anti-COUP TF1 antibody [EPR10841] (ab181137)

COUP TF1 Flow Cytometry (Intracellular) staining using rabbit Anti-COUP TF1 antibody

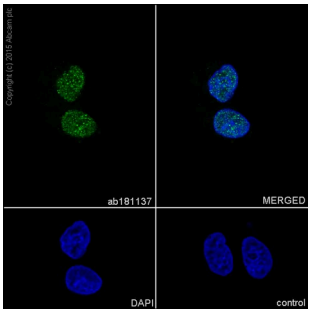
Intracellular Flow Cytometry analysis of MCF7 (Human cervix adenocarcinoma epithelial cell) cells labeling COUP TF1 with purified ab181137 at 1/500 dilution (red). Cells were fixed with 4% Paraformaldehyde. A Goat anti rabbit IgG (Alexa Fluor® 488) secondary antibody was used at 1/2000 dilution. Isotype control - Rabbit monoclonal IgG (Black). Unlabeled control - Cell without incubation with primary antibody and secondary antibody (Blue).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-COUP TF1 antibody [EPR10841] (ab181137)

COUP TF1 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-COUP TF1 antibody

Immunohistochemical analysis of paraffin-embedded Human glioblastoma staining COUP TF1 using unpurified ab181137 at 1/100. Prediluted HRP Polymer for Rabbit IgG was used as a secondary antibody, and Hematoxylin for counterstaining.

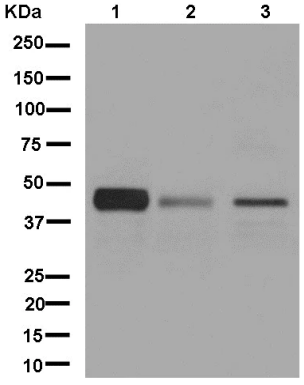


Immunocytochemistry/ Immunofluorescence - Anti-COUP TF1 antibody [EPR10841] (ab181137)

COUP TF1 Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-COUP TF1 antibody

Immunocytochemistry/Immunofluorescence analysis of MCF-7cells labelling COUP TF1 with unpurified ab181137 at 1/500. Cells were fixed with 4% Paraformaldehyde. ab150077, an Alexa Fluor® 488-conjugated goat anti-rabbit IgG (1/1000) was used as the secondary antibody.

Control: PBS only.
Nuclear counter stain: DAPI.



Western blot - Anti-COUP TF1 antibody [EPR10841] (ab181137)

COUP TF1 Western blot staining using rabbit Anti-COUP TF1 antibody

Blocking and diluting buffer and concentration: 5% NFDM/TBST.

All lanes:
Western blot - Anti-COUP TF1 antibody [EPR10841] (ab181137) at 1/1000 dilution

Lane 1:
Human fetal brain lysate at 20 µg

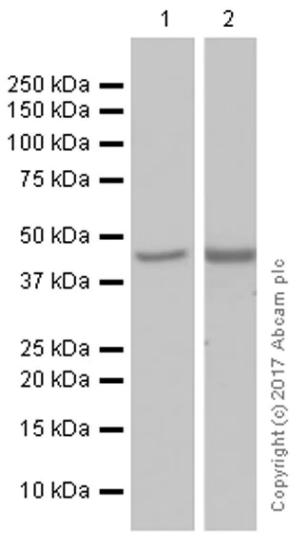
Lane 2:
Human fetal kidney lysate at 20 µg

Lane 3:
293 cell lysate at 20 µg

Secondary

All lanes:

Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab136636) at 1/500 dilution



Western blot - Anti-COUP TF1 antibody [EPR10841] (ab181137)

COUP TF1 Western blot staining using rabbit Anti-COUP TF1 antibody

Blocking and diluting buffer: 5% NFDM/TBST.
All lanes:
Western blot - Anti-COUP TF1 antibody [EPR10841] (ab181137) at 1/5000 dilution

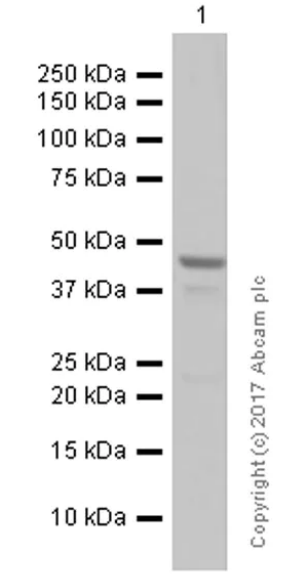
Lane 1:
Human fetal brain lysates at 20 µg

Lane 2:
Human fetal kidney lysates at 20 µg

Secondary

All lanes:
Goat Anti-Rabbit IgG (HRP) with minimal cross-reactivity with human IgG at 1/2000 dilution

Predicted band size: 46 kDa



Western blot - Anti-COUP TF1 antibody [EPR10841] (ab181137)

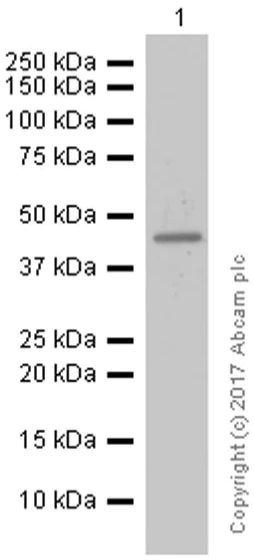
Blocking and diluting buffer: 5% NFDM/TBST.
All lanes:
Western blot - Anti-COUP TF1 antibody [EPR10841] (ab181137) at 1/1000 dilution

All lanes:
Rat brain lysates at 20 µg

Secondary

All lanes:
Goat Anti-Rabbit IgG (HRP) with minimal cross-reactivity with human IgG at 1/2000 dilution

Predicted band size: 46 kDa



Western blot - Anti-COUP TF1 antibody [EPR10841] (ab181137)

COUP TF1 Western blot staining of Mouse E12.5 brain lysates using rabbit Anti-COUP TF1 antibody

Blocking and diluting buffer: 5% NFDM/TBST
All lanes:
Western blot - Anti-COUP TF1 antibody [EPR10841] (ab181137) at 1/5000 dilution

All lanes:
Mouse E12.5 brain lysates at 15 µg

Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000 dilution

Predicted band size: 46 kDa

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