abcam

ab224272

Anti-COUP TF1 antibody [EPR10841] - BSA and Azide free

Recombinant | RabMAb

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Carrier free	Yes
Clone number	EPR10841
Purification technique	Affinity purification Protein A
Concentration	1.009 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IHC-P

Tested

Species	Human
Dilution info	-

Notes	-

Not recommended

Species	Mouse, Rat
Dilution info	-
Notes	-

WB

Expected

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

ICC/IF

Tested

Species	Human
Dilution info	-
Notes	-

Predicted

Species	Mouse, Rat
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	-

Notes	ab199376 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

Predicted

Species	Mouse, Rat
Dilution info	-
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	Blue Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	+4°C
Storage information	Do Not Freeze

Notes

ab224272 is the carrier-free version of ab181137.

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.

Conjugation ready
Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.

Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with 1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.

Compatibility
This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc.

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

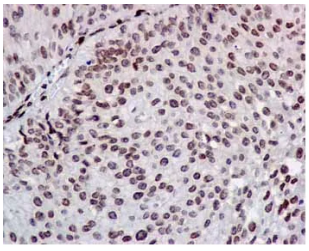
We do not recommend this combination. It is not covered by our product promise.

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.

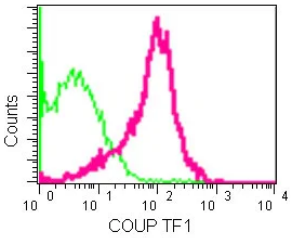
7 product images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-COUP TF1 antibody [EPR10841] - BSA and Azide free (ab224272)

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

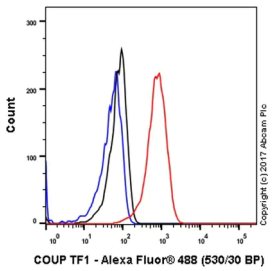
This IHC data was generated using the same anti-COUP TF1 antibody clone [EPR10841] in a different buffer formulation (cat# ab181137).
Immunohistochemical analysis of paraffin-embedded Human transitional cell carcinoma staining COUP TF1 using ab181137 at 1/100. Prediluted HRP Polymer for Rabbit IgG was used as a secondary antibody, and Hematoxylin for counterstaining.



Flow Cytometry (Intracellular) - Anti-COUP TF1 antibody [EPR10841] - BSA and Azide free (ab224272)

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

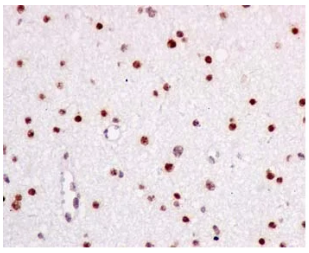
Intracellular flow cytometric analysis of COUP TF1 labeling 2% paraformaldehyde fixed 293 cells using unpurified ab181137 at 1/70 dilution (red), compared to a Rabbit monoclonal IgG isotype control (green). Goat anti rabbit IgG (FITC) secondary antibody was used at 1/150 dilution.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab181137).



Flow Cytometry (Intracellular) - Anti-COUP TF1 antibody [EPR10841] - BSA and Azide free (ab224272)

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

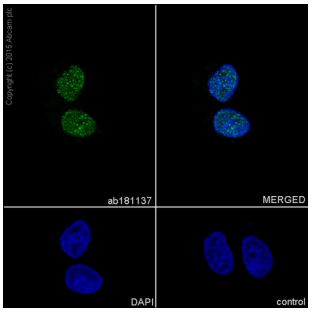
Intracellular Flow Cytometry analysis of MCF7 (Human cervix adenocarcinoma epithelial cell) cells labeling COUP TF1 with purified ab181137 at 1/500 dilution (red). Cells were fixed with 4% Paraformaldehyde. A Goat anti rabbit IgG (Alexa Fluor® 488) secondary antibody was used at 1/2000 dilution. Isotype control - Rabbit monoclonal IgG (Black). Unlabeled control - Cell without incubation with primary antibody and secondary antibody (Blue). This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab181137).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-COUP TF1 antibody [EPR10841] - BSA and Azide free (ab224272)

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.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab181137).

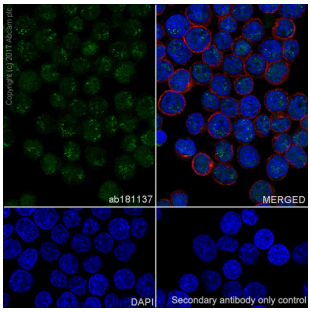


Immunocytochemistry/ Immunofluorescence - Anti-COUP TF1 antibody [EPR10841] - BSA and Azide free (ab224272)

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.

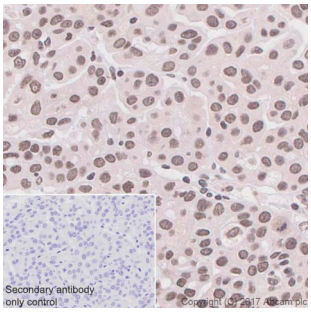
Control: PBS only.
Nuclear counter stain: DAPI.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab181137).



Immunocytochemistry/ Immunofluorescence - Anti-COUP TF1 antibody [EPR10841] - BSA and Azide free (ab224272)

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 TF2 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.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab181137).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-COUP TF1 antibody [EPR10841] - BSA and Azide free (ab224272)

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.This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab181137).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.