abcam

ab181116

Anti-TTF2 antibody [EPR12756]

Recombinant | RabMAb

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	EPR12756
Purification technique	Affinity purification Protein A
Concentration	0.32 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

WB

Tested

Species	Human
Dilution info	1/1000 - 1/10000
Notes	-

Predicted

Species	Mouse, Rat
Dilution info	-
Notes	-

ICC/IF

Tested

Species	Human
Dilution info	1/50 - 1/100
Notes	-

Predicted

Species	Mouse, Rat
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	1/60
Notes	ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

Predicted

Species	Mouse, Rat
Dilution info	-
Notes	-

IHC-P

Tested

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

Predicted

Species	Mouse, Rat
Dilution info	-
Notes	-

Target data

See full target information TTF2

Function	DsDNA-dependent ATPase which acts as a transcription termination factor by coupling ATP hydrolysis with removal of RNA polymerase II from the DNA template. May contribute to mitotic transcription repression. May also be involved in pre-mRNA splicing.

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

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	TTF2 also known as transcription termination factor 2 is a protein involved in the removal of RNA polymerase II from chromatin during the process of transcription termination. The protein has a molecular mass of approximately 87 kDa. TTF2 shows expression in various tissues including high levels in the testis and lower levels in the brain and heart. Its activity is essential for ensuring that proper termination signals within the genomic DNA are recognized and that transcription is concluded accurately without inappropriate elongation.
Biological function summary	TTF2 plays a significant role in the dissociation of the transcription machinery ensuring effective recycling of RNA polymerase II for reuse in new transcription cycles. TTF2 is not a part of a multi-protein complex but works closely with other factors in post-transcriptional regulation. This protein facilitates the resetting of the chromatin environment which is important for the maintenance of gene expression fidelity across cellular processes.
Pathways	TTF2 interacts with several important transcriptional regulation pathways. It plays an integral role in the RNA polymerase II transcription termination pathway ensuring proper end of transcription. Furthermore its functional association with proteins like RNA polymerase II and termination-related cofactors emphasizes its role in efficient transcriptional control and regulatory processes that affect gene expression.
Associated diseases and disorders	TTF2 has been implicated in various cancers where transcriptional misregulation is a contributing factor. Changes or anomalies in TTF2 expression or function can disrupt normal transcription termination leading to aberrant gene expression and possibly promoting oncogenesis. Additionally TTF2's interaction with RNA polymerase II highlights its potential involvement in neurodegenerative disorders where precise gene regulation is affected. Understanding TTF2's role in these contexts can benefit the development of targeted therapeutic strategies.

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.

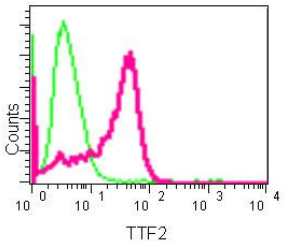
We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

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.

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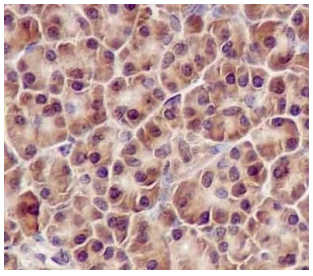
5 product images



Flow Cytometry (Intracellular) - Anti-TTF2 antibody [EPR12756] (ab181116)

TTF2 Flow Cytometry (Intracellular) staining using rabbit Anti-TTF2 antibody

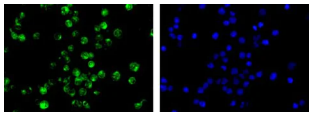
Intracellular flow cytometric analysis of 2% paraformaldehyde-fixed Jurkat cells labeling TTF2 with ab181116 at 1/60 dilution, followed byGoat anti rabbit IgG (FITC) at 1/150 dilution (pink).Rabbit monoclonal IgG was used as Isotype control (green).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TTF2 antibody [EPR12756] (ab181116)

TTF2 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-TTF2 antibody

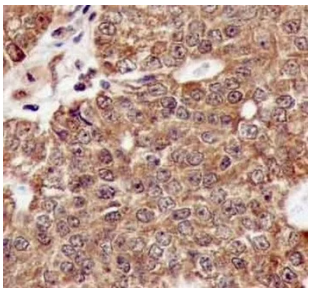
Immunohistochemical analysis of paraffin embedded Human pancreas tissue labeling TTF2 with ab181116 at 1/250 dilution. Prediluted (ready to use) HRP Polymer for Rabbit IgG was used as a secondary antibody. Counter stain: Hematoxylin
Perform heat mediated antigen retrieval with EDTA buffer pH 9 before commencing with IHC staining protocol.



Immunocytochemistry/ Immunofluorescence - Anti-TTF2 antibody [EPR12756] (ab181116)

TTF2 Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-TTF2 antibody

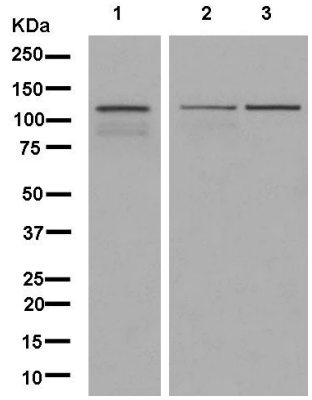
Immunofluorescent analysis of acetone-fixed Jurkat cells labeling TTF2 with ab181116 at 1/100 (green) dilution. Goat anti rabbit IgG (Alexa Fluor® 488) was used for secondary antibody staining at a dilution of 1/200. Counter stain: Dapi (blue)



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TTF2 antibody [EPR12756] (ab181116)

TTF2 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-TTF2 antibody

Immunohistochemical analysis of paraffin embedded Human adenocarcinoma of endometrium tissue labeling TTF2 with ab181116 at 1/250. Prediluted (ready to use) HRP Polymer for Rabbit IgG was used as a secondary antibody. Counter stain: Hematoxylin
Perform heat mediated antigen retrieval with EDTA buffer pH 9 before commencing with IHC staining protocol.



Western blot - Anti-TTF2 antibody [EPR12756] (ab181116)

All lanes:
Western blot - Anti-TTF2 antibody [EPR12756] (ab181116) at 1/5000 dilution

Lane 1:
Daudi cell line lysate at 20 µg

Lane 2:
HeLa cell line lysate at 20 µg

Lane 3:
Jurkat cell line lysate at 20 µg

Secondary

All lanes:
Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated antibody at 1/1000 dilution

Predicted band size: 130 kDa

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