abcam

ab240241

Anti-TTF2 antibody [EPR12756] - 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	EPR12756
Purification technique	Affinity purification Protein A
Concentration	0.993 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

WB

Expected

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

Predicted

Species	Mouse, Rat
Dilution info	-
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	-

IHC-P

Tested

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

Notes

ab240241 is the carrier-free version of ab181116.

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	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

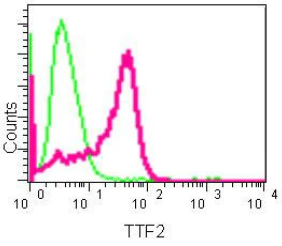
We do not recommend this combination. It is not covered by our product promise.

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.

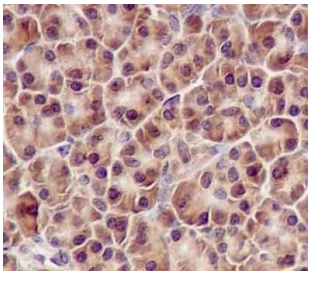
4 product images



Flow Cytometry (Intracellular) - Anti-TTF2 antibody [EPR12756] - BSA and Azide free (ab240241)

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 by Goat anti rabbit IgG (FITC) at 1/150 dilution (pink). Rabbit monoclonal IgG was used as Isotype control (green).
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab181116).

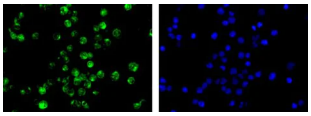


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TTF2 antibody [EPR12756] - BSA and Azide free (ab240241)

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
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab181116).

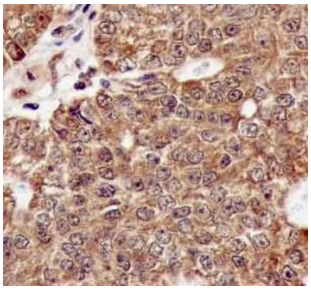
Perform heat mediated antigen retrieval with EDTA buffer pH 9 before commencing with IHC staining protocol.



Immunocytochemistry/ Immunofluorescence - Anti-TTF2 antibody [EPR12756] - BSA and Azide free (ab240241)

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)
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab181116).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TTF2 antibody [EPR12756] - BSA and Azide free (ab240241)

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
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab181116).

Perform heat mediated antigen retrieval with EDTA buffer pH 9 before commencing with IHC staining protocol.

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