

## Product datasheet

# Anti-TTF1 antibody [EP1584Y] ab76013

Recombinant RabMAb

★★★★★ 14 Abreviews 100 References 10 Images

### Overview

<b>Product name</b>	Anti-TTF1 antibody [EP1584Y]
<b>Description</b>	Rabbit monoclonal [EP1584Y] to TTF1
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> IHC-P, WB <b>Unsuitable for:</b> Flow Cyt or ICC/IF
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Human
<b>Immunogen</b>	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers. (Peptide available as <a href="#">ab187893</a> )
<b>Positive control</b>	IHC-P: Human lung carcinoma and thyroid carcinoma tissue; Rat lung tissue; Mouse lung tissue. WB: HeLa and HEK-293 cell lysate; Rat and mouse lung lysate. Flow Cyt: HeLa and A549 cells. IHC-Fr: Murine fetal lung tissue.
<b>General notes</b>	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p> <p><b>We are constantly working hard to ensure we provide our customers with best in class antibodies. As a result of this work we are pleased to now offer this antibody in purified format. We are in the process of updating our datasheets. The purified format is designated 'PUR' on our product labels. If you have any questions regarding this update, please contact our Scientific Support team.</b></p>

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.

<b>Storage buffer</b>	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol, 0.05% BSA
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EP1584Y
<b>Isotype</b>	IgG

## Applications

**The Abpromise guarantee** Our [Abpromise guarantee](#) covers the use of ab76013 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

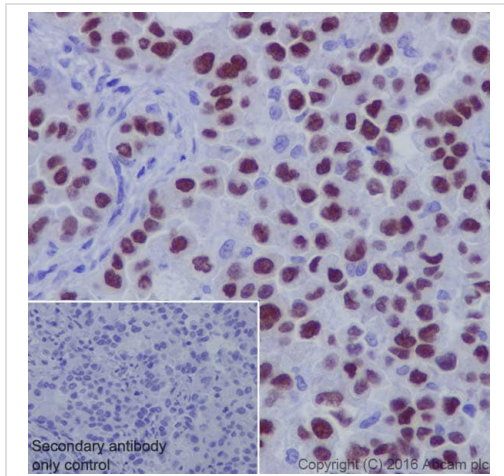
Application	Abreviews	Notes
IHC-P	★★★★★ (3)	1/250. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. See <a href="#">IHC antigen retrieval protocols</a> .
WB	★★★★★ (4)	1/2000. Detects a band of approximately 38-42 kDa (predicted molecular weight: 38-42 kDa). Can be blocked with <a href="#">TTF1 peptide (ab187893)</a> . <b>For unpurified use at 1/500- 1/1000.</b>

**Application notes** Is unsuitable for Flow Cyt or ICC/IF.

## Target

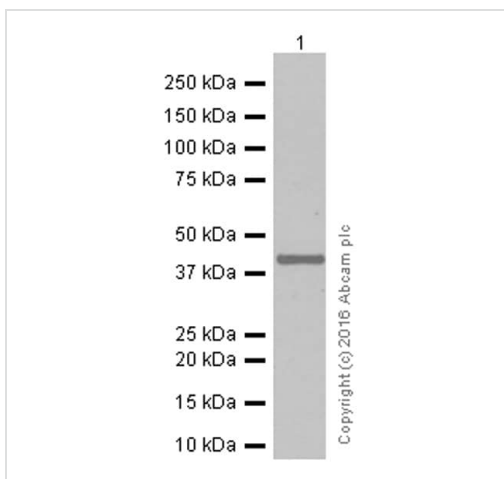
<b>Function</b>	Transcription factor that binds and activates the promoter of thyroid specific genes such as thyroglobulin, thyroperoxidase, and thyrotropin receptor. Crucial in the maintenance of the thyroid differentiation phenotype. May play a role in lung development and surfactant homeostasis.
<b>Tissue specificity</b>	Thyroid and lung.
<b>Involvement in disease</b>	Defects in NKX2-1 are the cause of benign hereditary chorea (BHC) [MIM:118700]; also known as hereditary chorea without dementia. BHC is an autosomal dominant movement disorder. The early onset of symptoms (usually before the age of 5) and the observation that in some BHC families the symptoms tend to decrease in adulthood suggests that the disorder results from a developmental disturbance of the brain. BHC is non-progressive and patients have normal or slightly below normal intelligence. There is considerable inter- and intrafamilial variability, including dysarthria, axial dystonia and gait disturbances. Defects in NKX2-1 are the cause of choreoathetosis, hypothyroidism, and neonatal respiratory distress (CHNRD) [MIM:610978]. This syndrome include neurological, thyroid, and respiratory problems.
<b>Sequence similarities</b>	Belongs to the NK-2 homeobox family. Contains 1 homeobox DNA-binding domain.
<b>Post-translational modifications</b>	Phosphorylated on serine residues.
<b>Cellular localization</b>	Nucleus.

## Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TTF1 antibody [EP1584Y] (ab76013)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human lung carcinoma tissue sections labeling TTF1 with purified ab76013 at 1/250 dilution (0.6 µg/ml). Heat mediated antigen retrieval was performed using EDTA Buffer, PH9. Hematoxylin was used to counter stain. [ab97051](#), a Goat Anti-Rabbit IgG H&L (HRP) secondary antibody was used at 1/500 dilution. PBS instead of the primary antibody was used as the negative control.



Western blot - Anti-TTF1 antibody [EP1584Y] (ab76013)

Anti-TTF1 antibody [EP1584Y] (ab76013) at 1/10000 dilution (purified) + HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysate at 20 µg

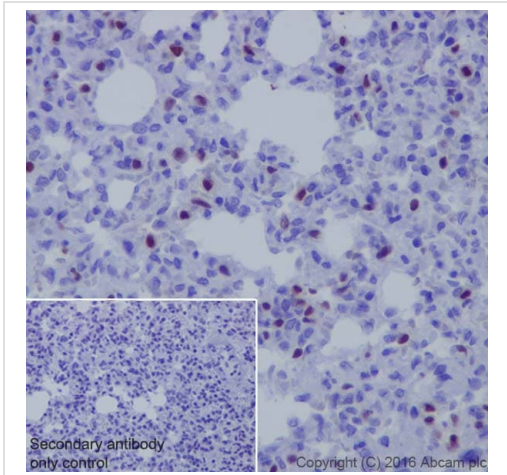
### Secondary

Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at 1/2000 dilution

**Predicted band size:** 38-42 kDa

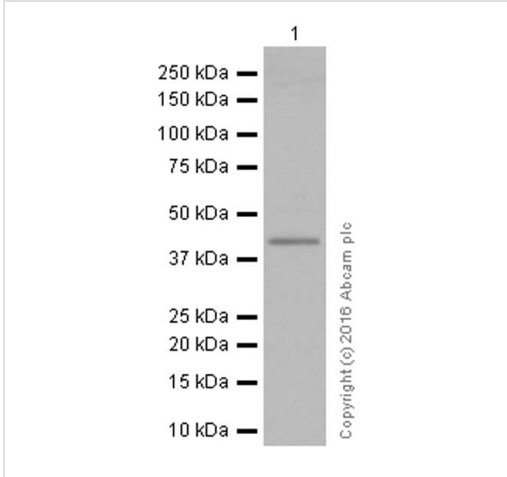
**Observed band size:** 40 kDa

Blocking and diluting buffer: 5% NFDM/TBST.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of rat lung tissue sections labeling TTF1 with purified ab76013 at 1/250 dilution (0.6 µg/ml). Heat mediated antigen retrieval was performed using EDTA Buffer, PH9. Hematoxylin was used to counter stain. [ab97051](#), a Goat Anti-Rabbit IgG H&L (HRP) secondary antibody was used at 1/500 dilution. PBS instead of the primary antibody was used as the negative control.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TTF1 antibody [EP1584Y] (ab76013)



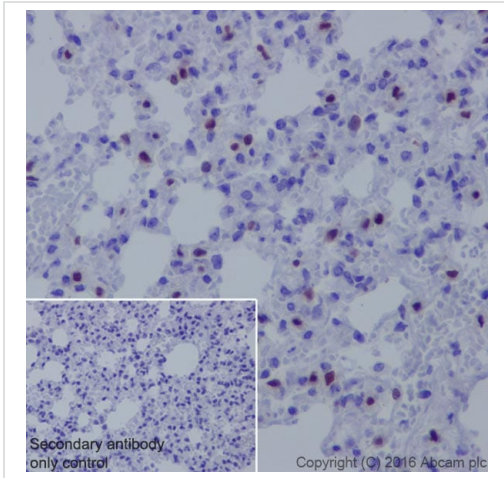
Anti-TTF1 antibody [EP1584Y] (ab76013) (purified) + Rat lung lysate at 15 µg

**Secondary**  
Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

**Predicted band size:** 38-42 kDa  
**Observed band size:** 40 kDa

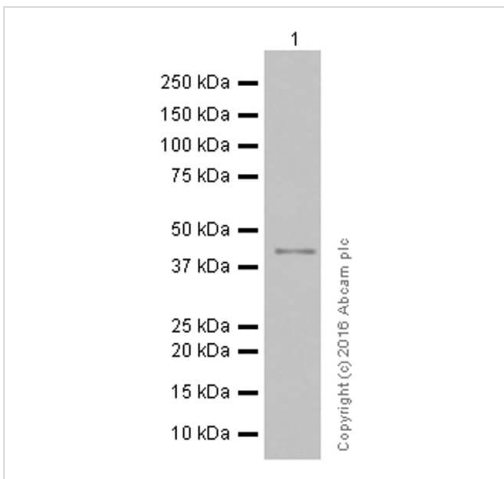
Western blot - Anti-TTF1 antibody [EP1584Y] (ab76013)

Blocking and diluting buffer: 5% NFDM/TBST.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of mouse lung tissue sections labeling TTF1 with purified ab76013 at 1/250 dilution (0.6 µg/ml). Heat mediated antigen retrieval was performed using EDTA Buffer, PH9. Hematoxylin was used to counter stain. [ab97051](#), a Goat Anti-Rabbit IgG H&L (HRP) secondary antibody was used at 1/500 dilution. PBS instead of the primary antibody was used as the negative control.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TTF1 antibody [EP1584Y] (ab76013)



Anti-TTF1 antibody [EP1584Y] (ab76013) at 1/2000 dilution (purified) + Mouse lung lysate at 20 µg

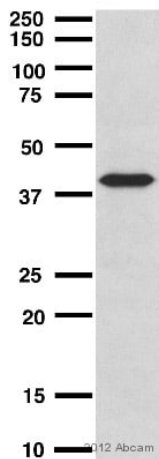
**Secondary**

Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at 1/2000 dilution

**Predicted band size:** 38-42 kDa

**Observed band size:** 40 kDa

Western blot - Anti-TTF1 antibody [EP1584Y] (ab76013)



Western blot - Anti-TTF1 antibody [EP1584Y]

(ab76013)

This image is courtesy of an anonymous Abreview

Anti-TTF1 antibody [EP1584Y] (ab76013) at 1/2000 dilution  
(unpurified) + HEK293 whole cell lysate at 30 µg

### Secondary

HRP-conjugated goat anti-rabbit polyclonal IgG at 1/10000 dilution

Developed using the ECL technique.

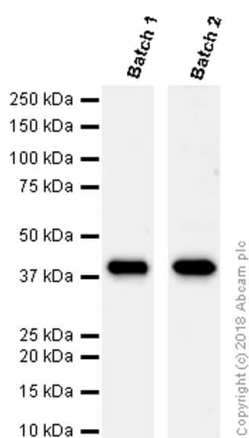
Performed under reducing conditions.

**Predicted band size:** 38-42 kDa

**Observed band size:** 40 kDa

**Exposure time:** 2 minutes

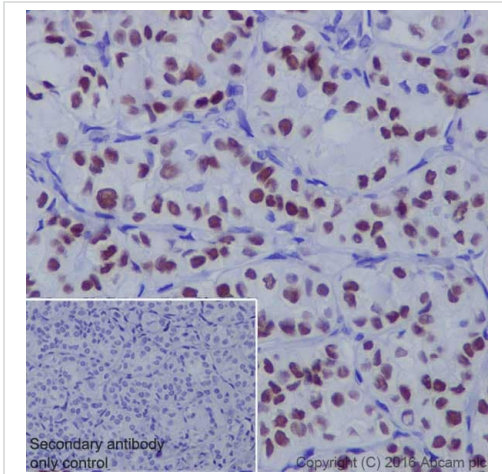
Blocked with 5% milk



Western blot - Anti-TTF1 antibody [EP1584Y]

(ab76013)





Different batches of ab76013 were tested on HeLa (Human cervix adenocarcinoma epithelial cell) lysate at 0.05 µg/ml. 15 µg of lysate was loaded in each lane. Bands observed at 40 kDa.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human thyroid carcinoma tissue sections labeling TTF1 with purified ab76013 at 1/250 dilution (0.6 µg/ml). Heat mediated antigen retrieval was performed using EDTA Buffer, PH9. Hematoxylin was used to counter stain. [ab97051](#), a Goat Anti-Rabbit IgG H&L (HRP) secondary antibody was used at 1/500 dilution. PBS instead of the primary antibody was used as the negative control.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TTF1 antibody [EP1584Y] (ab76013)

Why choose a recombinant antibody?

 <p><b>Research with confidence</b> Consistent and reproducible results</p>	 <p><b>Long-term and scalable supply</b> Recombinant technology</p>
 <p><b>Success from the first experiment</b> Confirmed specificity</p>	 <p><b>Ethical standards compliant</b> Animal-free production</p>

Anti-TTF1 antibody [EP1584Y] (ab76013)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

### Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

## Terms and conditions

---

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors