

Product datasheet

# Anti-TTF1 antibody [EPR8190-138] - BSA and Azide free ab227576

Recombinant RabMAb

1 References 9 Images

Overview

<b>Product name</b>	Anti-TTF1 antibody [EPR8190-138] - BSA and Azide free
<b>Description</b>	Rabbit monoclonal [EPR8190-138] to TTF1 - BSA and Azide free
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> IHC-P, WB <b>Unsuitable for:</b> ICC
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Human
<b>Immunogen</b>	Recombinant fragment.
<b>Positive control</b>	Human fetal lung, Human lung adenocarcinoma, Rat and Mouse lung tissue lysates; Human lung carcinoma and Human papillary thyroid carcinoma, Lung squamous carcinoma, Small cell lung carcinoma, Thyroid gland, Thyroid gland papillary carcinoma and Normal lung tissues
<b>General notes</b>	<p>ab227576 is the carrier-free version of <a href="#">ab137061</a>.</p> <p>Our <a href="#">carrier-free</a> antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>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.</p> <p>Use our <a href="#">conjugation kits</a> for antibody conjugates that are ready-to-use in as little as 20 minutes with &lt;1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is compatible with the Maxpar<sup>®</sup> Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar<sup>®</sup> is a trademark of Fluidigm Canada Inc.</p>

Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C. Do Not Freeze.

<b>Storage buffer</b>	pH: 7.2 Constituent: PBS
<b>Carrier free</b>	Yes
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR8190-138
<b>Isotype</b>	IgG

## Applications

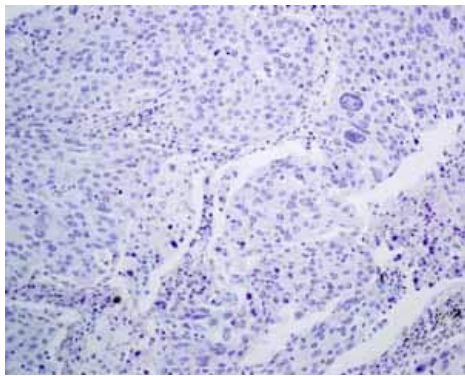
**The Abpromise guarantee** Our [Abpromise guarantee](#) covers the use of ab227576 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
<b>IHC-P</b>		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
<b>WB</b>		Use at an assay dependent concentration. Detects a band of approximately 38-42 kDa (predicted molecular weight: 39 kDa).

**Application notes** Is unsuitable for ICC.

## 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.

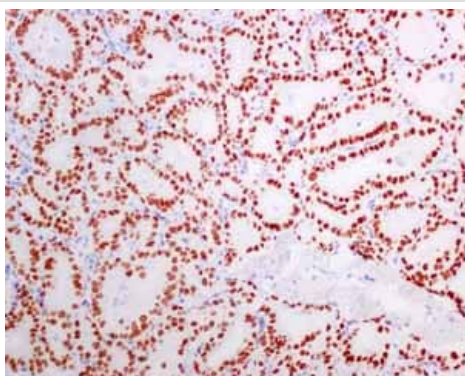


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TTF1 antibody [EPR8190-138] - BSA and Azide free (ab227576)

Immunohistochemical analysis using [ab137061](#) showing positive staining in Lung squamous carcinoma tissue.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab137061](#)).

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

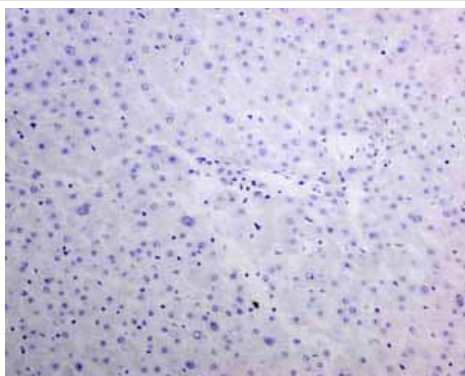


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TTF1 antibody [EPR8190-138] - BSA and Azide free (ab227576)

Immunohistochemical analysis using [ab137061](#) showing positive staining in Thyroid gland papillary carcinoma tissue.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab137061](#)).

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

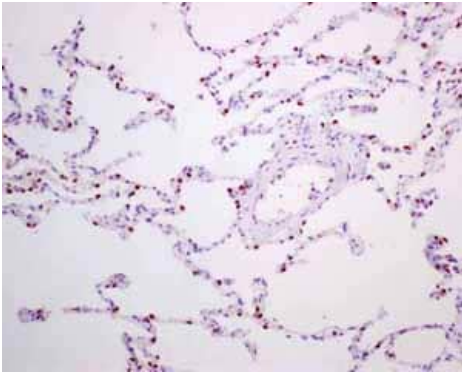


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TTF1 antibody [EPR8190-138] - BSA and Azide free (ab227576)

Immunohistochemical analysis using [ab137061](#) showing negative staining in Normal liver tissue.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab137061](#)).

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

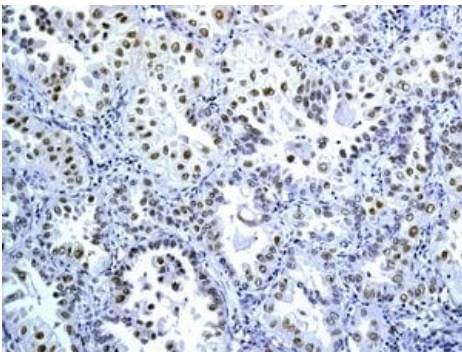


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TTF1 antibody [EPR8190-138] - BSA and Azide free (ab227576)

Immunohistochemical analysis using [ab137061](#) showing positive staining in Normal lung tissue.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab137061](#)).

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

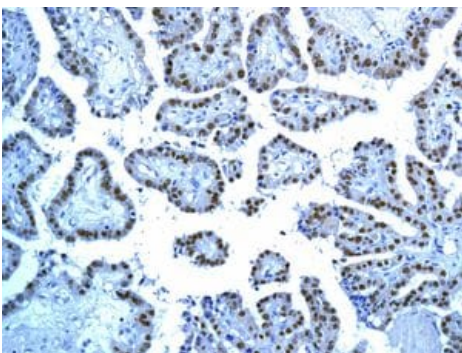


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TTF1 antibody [EPR8190-138] - BSA and Azide free (ab227576)

Immunohistochemical analysis of paraffin-embedded Human lung carcinoma tissue labelling TTF1 with [ab137061](#) at 1/250 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab137061](#)).

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

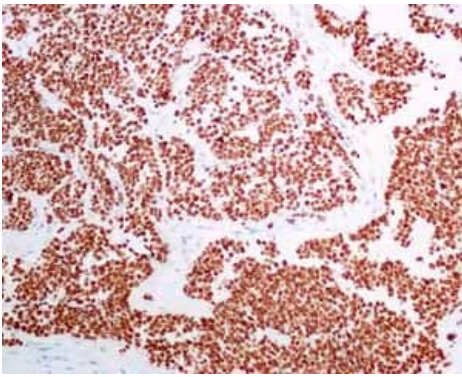


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TTF1 antibody [EPR8190-138] - BSA and Azide free (ab227576)

Immunohistochemical analysis of paraffin-embedded Human papillary thyroid carcinoma tissue labelling TTF1 with [ab137061](#) at 1/250 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab137061](#)).

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

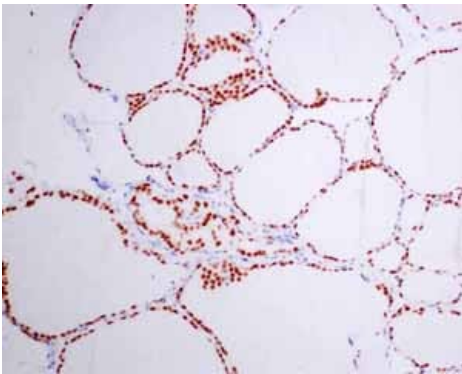


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TTF1 antibody [EPR8190-138] - BSA and Azide free (ab227576)

This IHC data was generated using the same anti-TTF1 antibody clone, EPR8190-138, in a different buffer formulation (cat# [ab137061](#)).

Immunohistochemical analysis using [ab137061](#) showing positive staining in Small cell lung carcinoma tissue.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TTF1 antibody [EPR8190-138] - BSA and Azide free (ab227576)

This IHC data was generated using the same anti-TTF1 antibody clone, EPR8190-138, in a different buffer formulation (cat# [ab137061](#)).

Immunohistochemical analysis using [ab137061](#) showing positive staining in Thyroid gland tissue.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

### Why choose a recombinant antibody?



Anti-TTF1 antibody [EPR8190-138] - BSA and Azide free (ab227576)

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

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