# TTF-1 Rabbit mAb

Catalog No.: A3292 Recombinant 4 Publications



### **Basic Information**

#### **Observed MW**

42kDa

#### **Calculated MW**

39kDa

### Category

Primary antibody

### **Applications**

WB,IF-P,IHC-P,ELISA

#### **Cross-Reactivity**

Human, Mouse, Rat

#### CloneNo number

ARC1942

## **Background**

This gene encodes a protein initially identified as a thyroid-specific transcription factor. The encoded protein binds to the thyroglobulin promoter and regulates the expression of thyroid-specific genes but has also been shown to regulate the expression of genes involved in morphogenesis. Mutations and deletions in this gene are associated with benign hereditary chorea, choreoathetosis, congenital hypothyroidism, and neonatal respiratory distress, and may be associated with thyroid cancer. Multiple transcript variants encoding different isoforms have been found for this gene. This gene shares the symbol/alias 'TTF1' with another gene, transcription termination factor 1, which plays a role in ribosomal gene transcription.

### **Recommended Dilutions**

**WB** 1:1000 - 1:6000

**IF-P** 1:200 - 1:2000

IHC-P 1:500 - 1:2000

**ELISA** Recommended starting

concentration is 1 µg/mL.

Please optimize the
concentration based on
your specific assay
requirements.

### Immunogen Information

**Gene ID**7080 **Swiss Prot**P43699

#### **Immunogen**

Synthetic peptide. This information is considered to be commercially sensitive.

### **Synonyms**

BCH; BHC; NK-2; TEBP; TTF1; NKX2A; NMTC1; T/EBP; TITF1; TTF-1; NKX2.1; NKX2-1

### **Contact**

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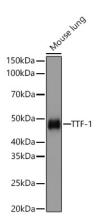
### **Product Information**

SourceIsotypePurificationRabbitIgGAffinity purification

#### Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.



Western blot analysis of lysates from Mouse lung using TTF-1 Rabbit mAb (A3292) at 1:1000 dilution incubated overnight at  $4^{\circ}$ C.

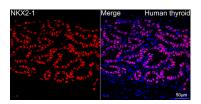
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

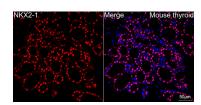
Lysates/proteins: 25 µg per lane.

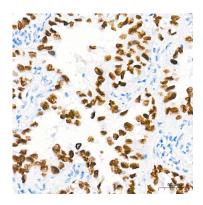
Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Exposure time: 1s.



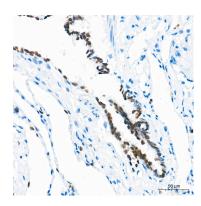




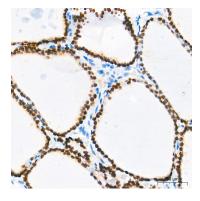
Confocal imaging of paraffin-embedded Human thyroid using NKX2-1 Rabbit mAb (A3292,dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (A5007,dilution 1:500)(Red).DAPI was used for nuclear staining (Blue). Objective: 40x. Perform high pressure antigen retrieval with 0.01 M citRate buffer (pH 6.0) prior to IF staining.

Confocal imaging of paraffin-embedded Mouse thyroid using NKX2-1 Rabbit mAb (A3292,dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007,dilution 1:500)(Red).DAPI was used for nuclear staining (Blue). Objective: 40x. Perform high pressure antigen retrieval with 0.01 M citRate buffer (pH 6.0) prior to IF staining.

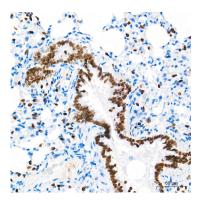
Immunohistochemistry analysis of paraffinembedded Human lung adenocarcinoma tissue using NKX2-1 Rabbit mAb (A3292) at a dilution of 1:1000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffinembedded Human lung tissue using NKX2-1 Rabbit mAb (A3292) at a dilution of 1:1000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffinembedded Human thyroid tissue using NKX2-1 Rabbit mAb (A3292) at a dilution of 1:1000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffinembedded Mouse lung tissue using NKX2-1 Rabbit mAb (A3292) at a dilution of 1:1000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.

## **Validation Data**



Immunohistochemistry analysis of paraffinembedded Rat lung tissue using NKX2-1 Rabbit mAb (A3292) at a dilution of 1:1000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.