

## TTF-1 (8G7G3/1)

Format	Catalog No.	Pack size	Dilution
Concentrated	G00144 A, B, C	0.1, 0.5, 1.0 mL	1:100
Prediluted	G00144 AA, BB	6.0, 3.0 mL	Ready to use

**SPECIES:** Mouse

**IMMUNOGEN:** Recombinant full-length Rat TTF-1 protein

**CLONE:** 8G7G3/1

**ISOTYPE:** IgG1, kappa

**FORMAT:** 200µg/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM EDTA with 0.05% BSA & 0.05% azide.

**SPECIFICITY** – Identifies thyroid transcription factor 1 (TTF-1) as a 40 kDa protein.

### BACKGROUND –

TTF-1 belongs to the family of homeodomain transcription factors called NKx2. The thyroid gland and lung epithelial cells both express it. The pituitary, prostate, adrenal glands, liver, stomach, pancreas, small intestine, colon, kidney, breast, skin, and testes all have non-reactive nuclei. Anti-TTF-1 is helpful in distinguishing malignant mesothelioma, mediastinal germ cell tumours, and lung primary adenocarcinoma from breast-derived metastases. Additionally, it can be utilised to distinguish lymphoid infiltrates from small cell lung cancer. Loss of TTF-1 expression in non-small cell lung carcinoma has been connected with aggressive behaviour of such neoplasms. Thyroid cancers also exhibit TTF-1 reactivity.

**SPECIES REACTIVITY :** Human, Mouse, and Rat. Shows a broad species reactivity.

**POSITIVE CONTROL :** MAD109, MLE-15, H441-4, or H345 cells. Normal thyroid or lung.

**CELLULAR LOCALIZATION :** Nuclear.

**TITER/WORKING DILUTION:** Immunohistochemistry (Frozen and Formalin-fixed): 0.5-1 µg/ml

Flow Cytometry: 0.5-1 µg/million cells

Western Blotting: 0.5-1 µg/ml

Immunofluorescence: 0.5-1 µg/ml

Immunoprecipitation: 1-2 µg/500µg protein lysate

**MICROBIOLOGICAL STATE :** This product is not sterile.

### LIMITATIONS AND USES:

1. Not to be consumed internally.
2. For research purpose only (RUO)
3. This product is designed for qualitative immunohistochemistry using formalin-fixed, paraffin-embedded
4. tissue sections from both normal and malignant tissues, which will be examined under a light microscope.



4448 Ammendale Rd Beltsville, MD  
20705, USA



www.genebiosolution.com



info@genebiosolution.com



+1 (408) 580-1396

5. If the reagent gets hazy, don't use it.
6. Never use after the expiration date.
7. When working with reagents, exercise caution.
8. Not sterile.

#### PROCEDURE –

1. **Tissue Section Pretreatment (Necessary):** Citrate Plus pretreatment greatly improves the staining of tissue slices that have been paraffin embedded and fixed with formalin.
2. **Incubation Time for Primary Antibody:** We recommend 30 minutes at room temperature for incubation.  
However, the user should choose the best incubation time based on the staining system used and the fixing circumstances.
3. **Visualisation:** To get the highest staining intensity, we advise combining the "DAB Chromogen/Substrate Bulk Pack (High Contrast)" with the "HRP Anti-Polyvalent".

#### PRECAUTIONS –

1. Contains 0.09% w/v sodium azide as a preservative.
2. Avoid pipetting by mouth.
3. Reagents and specimens should not come into touch with skin or mucous membranes.
4. Prevent reagent contamination by microorganisms, as this could lead to an increase in nonspecific staining.
5. There are no dangerous materials in this product.

#### TECHNICAL SUPPORT

For technical assistance, please contact Genebio Solution's Technical Support at [www.genebiosolution.com](http://www.genebiosolution.com)



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