

## Mouse TTF-1 / NKX2.1 Monoclonal Antibody | anti-NKX2-1 antibody

TTF-1 / NKX2.1 (Thyroid & Lung Epithelial Marker) Mouse Monoclonal Antibody

| CATALOG # | HOST  | REACTIVITY                                          | APPLICATIONS                                                               |
|-----------|-------|-----------------------------------------------------|----------------------------------------------------------------------------|
| AAA214419 | Mouse | Human, Mouse, Rat. Shows a broad species reactivity | Immunohistochemistry, Immunofluorescence, Flow Cytometry, Functional Assay |

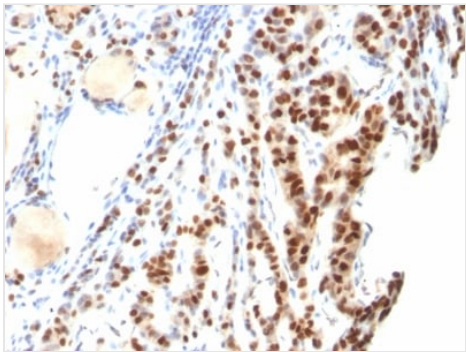
### PRODUCT SYNONYMS

TTF-1 / NKX2.1; Monoclonal Antibody; TTF-1 / NKX2.1 (Thyroid & Lung Epithelial Marker) Mouse Monoclonal Antibody; BCH; Benign chorea; BHC; Homeobox protein Nkx2.1; NK2 homeobox 1; NKX2.1; NKX2A; TEBP; Thyroid nuclear factor-1; Thyroid specific enhancer binding protein; Thyroid transcription factor-1 (TTF-1); Tin man; TITF1; TTF-1; anti-NKX2-1 antibody

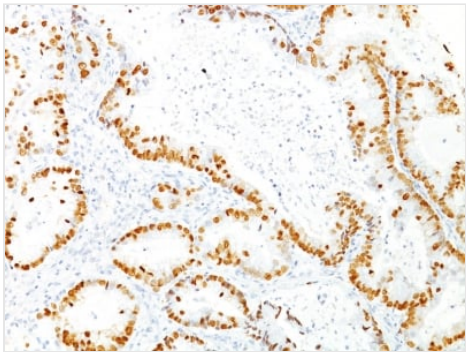
### PRODUCT SPECIFICATIONS

|                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|--------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                             | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Reactivity                                       | Human, Mouse, Rat.<br>Shows a broad species reactivity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Clonality                                        | Monoclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Isotype                                          | IgG1, kappa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Clone Number                                     | 8G7G3/1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Specificity                                      | Recognizes a protein of 40kDa, identified as Thyroid transcription factor-1 (TTF-1). TTF-1 is a member of the NKx2 family of homeodomain transcription factors. It is expressed in epithelial cells of the thyroid gland and the lung. Nuclei from liver, stomach, pancreas, small intestine, colon, kidney, breast, skin, testes, pituitary, prostate, and adrenal glands are unreactive. Anti-TTF-1 is useful in differentiating primary adenocarcinoma of the lung from metastatic carcinomas originating in the breast, mediastinal germ cell tumors, and malignant mesothelioma. It can also be used to differentiate small cell lung carcinoma from lymphoid infiltrates. Loss of TTF-1 expression in non-small cell lung carcinoma has been associated with aggressive behavior of such neoplasms. TTF-1 reactivity is also seen in thyroid malignancies. |
| Form/Format                                      | Bioreactor Concentrate with 0.05% Azide.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Sequence Length                                  | 401                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Applicable Applications for anti-NKX2-1 antibody | IHC (Immunohistochemistry), IF (Immunofluorescence), FCM/FACS (Flow Cytometry)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Cellular Localization                            | Nuclear                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Immunogen                                        | Rat full length TTF-1 recombinant protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Hu-Chromosome Location                           | 14q13.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Positive Control                                 | MAD109, MLE-15, H441-4, or H345 cells. Normal thyroid or lung.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Preparation and Storage                          | Store at 2 to 8 degree C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

IMAGES



**IHC (Immunohistochemistry)**  
Formalin-fixed, paraffin-embedded human Thyroid stained with TTF-1 Monoclonal Antibody (8G7G3/1)



**IHC (Immunohistochemistry)**  
Formalin-fixed, paraffin-embedded human Lung Adenocarcinoma stained with TTF-1 Monoclonal Antibody (8G7G3/1)

ADDITIONAL INFORMATION

|            |                                                |
|------------|------------------------------------------------|
| References | Holzinger A, et. al. Hybridoma, 1996, 15:49-53 |
|------------|------------------------------------------------|

NCBI AND UNIPROT INFORMATION

|                                  |                                                                       |
|----------------------------------|-----------------------------------------------------------------------|
| NCBI GI #                        | 118766339                                                             |
| NCBI GeneID                      | 7080                                                                  |
| NCBI Accession #                 | NP_001073136.1                                                        |
| NCBI GenBank Nucleotide #        | NM_001079668.2                                                        |
| UniProt Accession #              | P43699; O14954; O14955; Q7KZF6; Q9BRJ8; D3DSA3                        |
| Molecular Weight                 | 40kDa                                                                 |
| NCBI Official Full Name          | homeobox protein Nkx-2.1 isoform 1                                    |
| NCBI Official Synonym Full Names | NK2 homeobox 1                                                        |
| NCBI Official Symbol             | NKX2-1                                                                |
| NCBI Official Synonym Symbols    | BCH; BHC; NK-2; TEBP; TTF1; NKX2A; NMTC1; T/EBP; TITF1; TTF-1; NKX2.1 |
| NCBI Protein Information         | homeobox protein Nkx-2.1                                              |
| UniProt Protein Name             | Homeobox protein Nkx-2.1                                              |
| UniProt Gene Name                | NKX2-1                                                                |
| UniProt Synonym Gene Names       | TTF-1; T/EBP                                                          |
| UniProt Entry Name               | NKX21_HUMAN                                                           |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.