

12-1259: Anti-TTF-1 / NKX2.1 (Thyroid & Lung Epithelial Marker) Recombinant Mouse Monoclonal Antibody (Clone:rNX2.1/690)

Clonality :	Monoclonal
Clone Name :	rNX2.1/690
Application :	IHC
Reactivity :	Human
Gene :	NKX2-1
Gene ID :	7080
Uniprot ID :	P43699
Format :	Purified
Alternative Name :	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
Isotype :	Mouse IgG1, kappa
Immunogen Information :	Recombinant full-length TTF-1 protein

Description

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.

Product Info

Amount :	20 µg / 100 µg
Purification :	Protein A/G
Content :	200µg/ml of recombinant MAb purified by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Storage condition :	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous.

Application Note

Immunohistochemistry (Formalin-fixed) (1-2µg/ml for 30 minutes at RT)(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes);

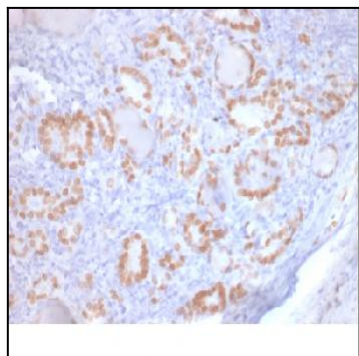


Figure 1: Formalin-fixed, paraffin-embedded human Lung Adenocarcinoma stained with TTF-1 Mouse Recombinant Monoclonal Antibody (rNX2.1/690).

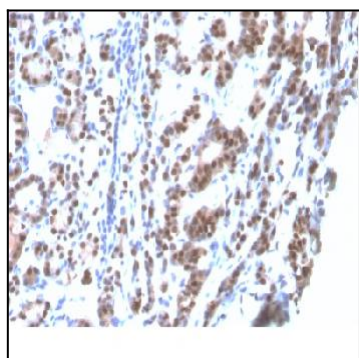


Figure 2: Formalin-fixed, paraffin-embedded human Thyroid stained with TTF-1 Mouse Recombinant Monoclonal Antibody (rNX2.1/690).

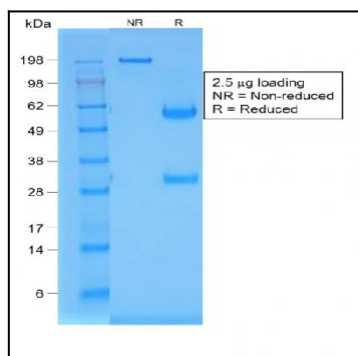


Figure 3: SDS-PAGE Analysis Purified TTF-1 Mouse Recombinant Monoclonal Antibody (rNX2.1/690).