Datasheet for ABIN6940741

anti-NKX2-1 antibody

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Overview

Quantity:	100 µg
Target:	NKX2-1
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This NKX2-1 antibody is un-conjugated
Application:	Flow Cytometry (FACS), Immunofluorescence (IF), Immunohistochemistry (IHC), Staining Methods (StM)

Product Details

Immunogen:	Rat full length TTF-1 recombinant protein
Clone:	8G7G3-1
Isotype:	IgG1 kappa
Specificity:	Recognizes a protein of 40 kDa, 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 Details

Cross-Reactivity (Details):	Shows a broad species reactivity.
Purification:	Purified by Protein A/G

Target Details

Target:	NKX2-1
Alternative Name:	NKX2-1 (NKX2-1 Products)
Molecular Weight:	40kDa
Gene ID:	7080
UniProt:	P43699
Pathways:	Intracellular Steroid Hormone Receptor Signaling Pathway, Regulation of Systemic Arterial Blood Pressure by Hormones, Cellular Glucan Metabolic Process, Feeding Behaviour

Application Details

Application Notes:	Positive Control: MAD109, MLE-15, H441-4 or H345 cells. Normal thyroid or lung. Known Application: Flow Cytometry (0.5-1 µg/million cells), Immunofluorescence (0.5-1 µg/mL), Immunohistochemistry (Formalin-fixed) (0.5-1 µg/mL for 30 minutes at RT)(Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes)Optimal dilution for a specific application should be determined.
Restrictions:	For Research Use only

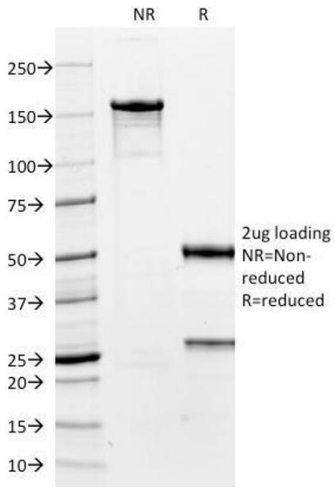
Handling

Concentration:	200 µg/mL
Buffer:	10 mM PBS with 0.05 % BSA & 0.05 % azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-80 °C
Storage Comment:	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. No MSDS required.

Handling

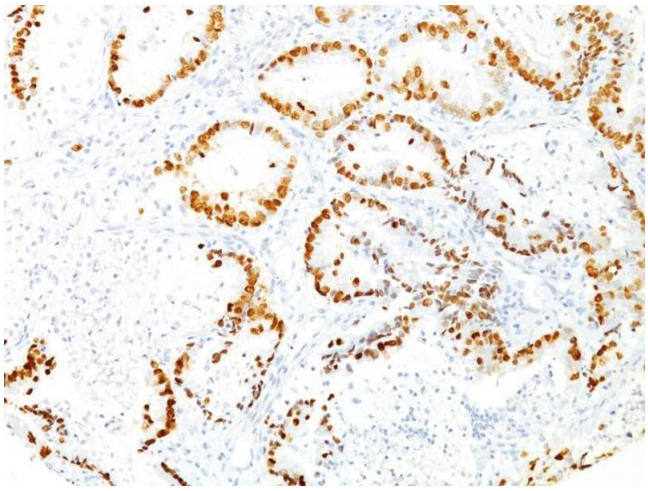
Expiry Date:	24 months

Images



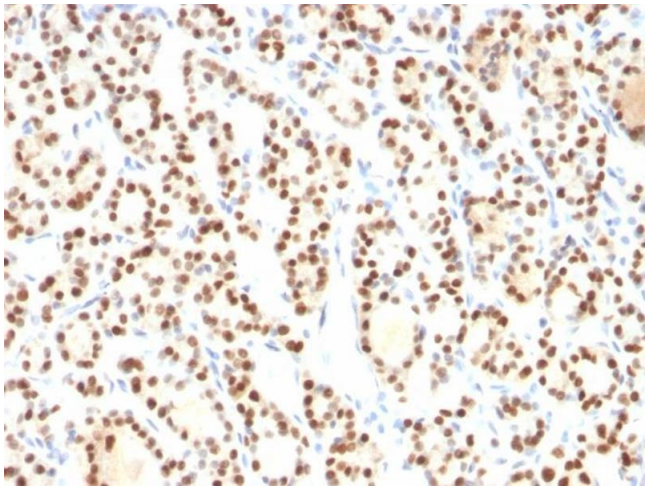
SDS-PAGE

Image 1. SDS-PAGE Analysis Purified TTF-1 Mouse Monoclonal Antibody (8G7G3/1). Confirmation of Purity and Integrity of Antibody.



Immunohistochemistry

Image 2. Formalin-fixed, paraffin-embedded human Lung Adenocarcinoma stained with TTF-1 Mouse Monoclonal Antibody (8G7G3/1).



Immunohistochemistry

Image 3. Formalin-fixed, paraffin-embedded human Thyroid stained with TTF-1 Mouse Monoclonal Antibody (8G7G3/1).