

Datasheet for ABIN5708025
anti-NKX2-1 antibody



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2 Images

Overview

Quantity:	100 µg
Target:	NKX2-1
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Monoclonal
Application:	Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	Recombinant protein was used as the immunogen for the recombinant NKX2.1 antibody.
Clone:	NX2-1-1855R
Isotype:	IgG kappa
Purification:	Purified
Purity:	Protein A affinity chromatography

Target Details

Target:	NKX2-1
Alternative Name:	NKX2.1 / TTF1 (NKX2-1 Products)
Background:	NKX2.1/TTF1 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-NKX2.1 is useful in differentiating primary adenocarcinoma of the

Target Details

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 NKX2.1 expression in non-small cell lung carcinoma has been associated with aggressive behavior of such neoplasms. NKX2.1 reactivity is also seen in thyroid malignancies.

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: Optimal dilution of the recombinant NKX2.1 antibody should be determined by the researcher.

1. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.\. Immunohistochemistry (FFPE): 0.5-1 µg/mL for 30 min at RT,Prediluted IHC only format: incubate for 30 min at RT (1)

Restrictions: For Research Use only

Handling

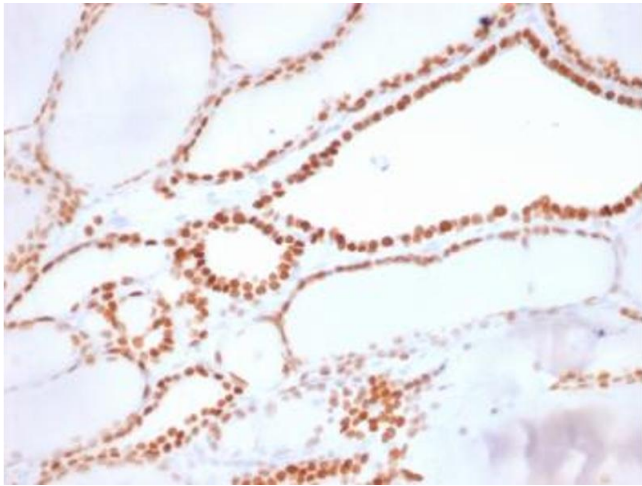
Buffer: 0.2 mg/mL in 1X PBS with 0.1 mg/mL BSA (US sourced) and 0.05 % sodium azide

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

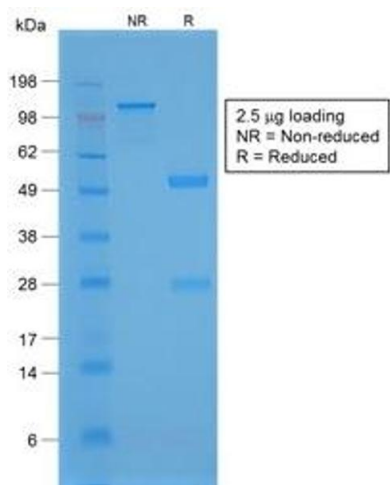
Storage: 4 °C,-20 °C

Storage Comment: Store the recombinant NKX2.1 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).



Immunohistochemistry

Image 1. IHC: Formalin-fixed, paraffin-embedded human thyroid stained with recombinant NKX2.1 antibody (clone NX2.1/1855R). Required HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min followed by cooling at RT for 20 min.



SDS-PAGE

Image 2. SDS-PAGE analysis of purified, BSA-free recombinant NKX2.1 antibody (clone NX2.1/1855R) as confirmation of integrity and purity.