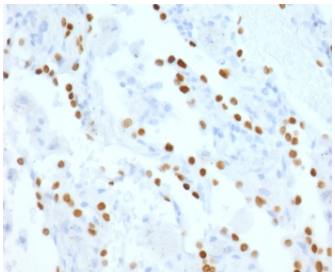
Recombinant NKX2.1 Antibody / TTF-1 Rabbit Monoclonal [clone HBNK2-2R] (V3732)

Catalog No.	Formulation	Size
V3732-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3732-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3732SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V3732IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

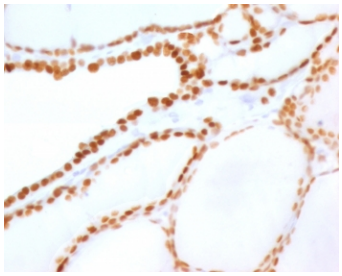
Recombinant RABBIT MONOCLONAL

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG, kappa
Clone Name	HBNK2-2R
Purity	Protein A affinity chromatography
UniProt	P43699
Localization	Nuclear
Applications	Immunohistochemistry (FFPE) : 0.5-1ug/ml for 30 min at RT Prediluted IHC Only Format : incubate for 30 min at RT (1)
Limitations	This recombinant NKX2.1 antibody is available for research use only.



IHC staining of human lung adenocarcinoma with recombinant NKX2.1 antibody (clone HBNK2-2R). Required HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min followed by cooling at RT for 20 min.



IHC staining of human thyroid tissue with recombinant NKX2.1 antibody (clone HBNK2-2R). Required HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min followed by cooling at RT for 20 min.

Description

NKX2.1/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-NKX2.1 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 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.

Application Notes

The stated application concentrations are suggested starting points. Titration of the recombinant NKX2.1 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

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.

Immunogen

Recombinant protein was used as the immunogen for the recombinant NKX2.1 antibody.

Storage

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