

ARG10551
anti-TTF1 antibody [A22-A]Package: 50 µl
Store at: -20°C

Summary

Product Description	Rabbit Monoclonal antibody [A22-A] recognizes TTF1
Tested Reactivity	Hu, Ms, Rat
Tested Application	WB
Host	Rabbit
Clonality	Monoclonal
Clone	A22-A
Isotype	IgG
Target Name	TTF1
Species	Human
Immunogen	Synthetic peptide around the N-terminus of Human TTF-1
Conjugation	Un-conjugated
Alternate Names	TITF1; NKX2.1; BCH; Thyroid nuclear factor 1; BHC; NKX2A; TTF1; TTF-1; Thyroid transcription factor 1; Homeobox protein NK-2 homolog A; Homeobox protein Nkx-2.1; T/EBP; Thyroid-specific enhancer-binding protein; TEBP; NK-2

Application Instructions

Application table	Application	Dilution
	WB	Assay-dependent
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

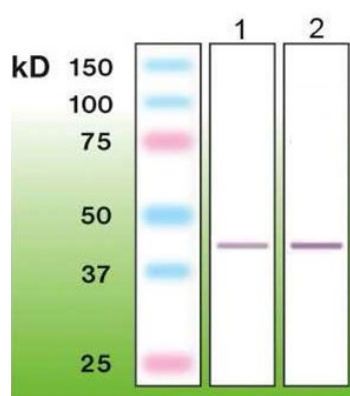
Properties

Form	Liquid
Buffer	20 mM Tris-HCl (pH 8.0), 0.05% Sodium azide and 10 mg/ml BSA
Preservative	0.05% Sodium azide
Stabilizer	10 mg/ml BSA
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	NKX2-1
Gene Full Name	NK2 homeobox 1
Background	This gene encodes a protein initially identified as a thyroid-specific transcription factor. The encoded protein binds to the thyroglobulin promoter and regulates the expression of thyroid-specific genes but has also been shown to regulate the expression of genes involved in morphogenesis. Mutations and deletions in this gene are associated with benign hereditary chorea, choreoathetosis, congenital hypothyroidism, and neonatal respiratory distress, and may be associated with thyroid cancer. Multiple transcript variants encoding different isoforms have been found for this gene. This gene shares the symbol/alias 'TTF1' with another gene, transcription termination factor 1, which plays a role in ribosomal gene transcription. [provided by RefSeq, Feb 2014]
Function	Transcription factor that binds and activates the promoter of thyroid specific genes such as thyroglobulin, thyroperoxidase, and thyrotropin receptor. Crucial in the maintenance of the thyroid differentiation phenotype. May play a role in lung development and surfactant homeostasis. Forms a regulatory loop with GRHL2 that coordinates lung epithelial cell morphogenesis and differentiation. Activates the transcription of GNRHR and plays a role in enhancing the circadian oscillation of its gene expression. Represses the transcription of the circadian transcriptional repressor NR1D1 (By similarity). [UniProt]
Calculated Mw	39 kDa
PTM	Phosphorylated on serine residues by STK3/MST2.

Images



ARG10551 anti-TTF1 antibody [A22-A] WB image

Western blot: 1) 5 μ l, and 2) 15 μ l of transient overexpression cell lysate (1 μ g/ μ l of total crude protein) of recombinant Human TTF-1 stained with ARG10551 anti-TTF1 antibody [A22-A].