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Product datasheet for CF803185

TTF1 (NKX2-1) Mouse Monoclonal Antibody [Clone ID: OTI3F3]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI3F3
Applications:	IF, IHC, WB
Recommended Dilution:	WB 1:2000
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human NKX2 (NP_003308) produced in E.coli.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	NK2 homeobox 1
Database Link:	NP_003308 Entrez Gene 21869 MouseEntrez Gene 25628 RatEntrez Gene 7080 Human P43699

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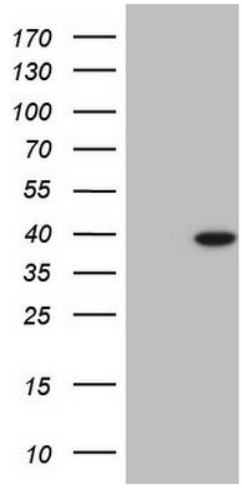
Background: This gene encodes a protein initially identified as a thyroid-specific transcription factor. The encoded protein binds to the thyroglobulin promoter and regulates the expression of thyroid-specific genes but has also been shown to regulate the expression of genes involved in morphogenesis. 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 'TFF1' with another gene, transcription termination factor 1, which plays a role in ribosomal gene transcription. [provided by RefSeq, Apr

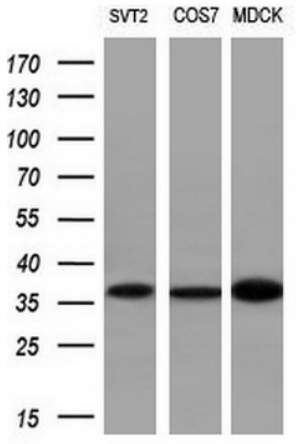
Synonyms: BCH; BHC; NK-2; NKX2.1; NKX2A; NMTC1; T/EBP; TEBP; TITF1; TTF-1; TTF1

Protein Families: Druggable Genome, ES Cell Differentiation/IPS, Transcription Factors

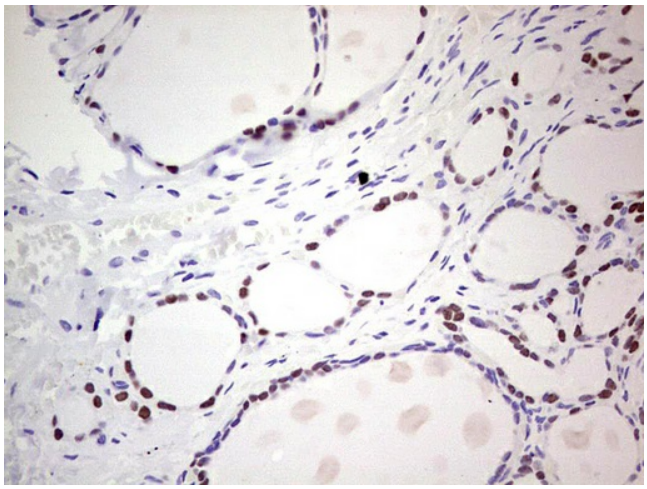
Product images:



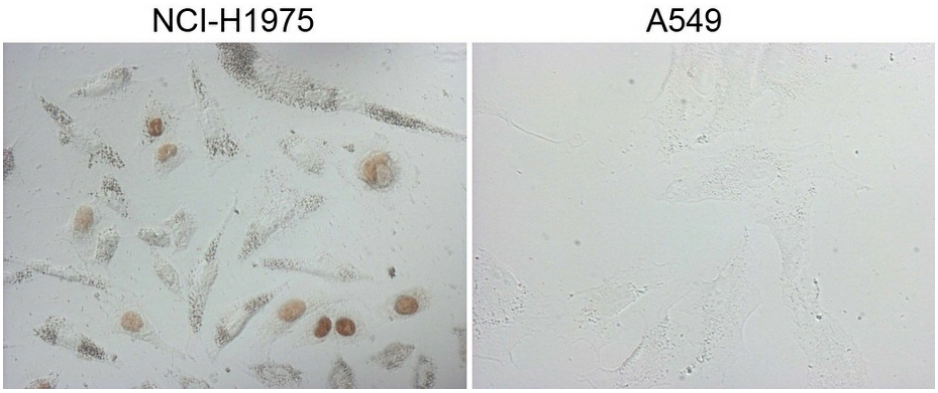
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY NKX2-1 ([RC217520], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-NKX2-1. Positive lysates [LY401141] (100ug) and [LC401141] (20ug) can be purchased separately from OriGene.



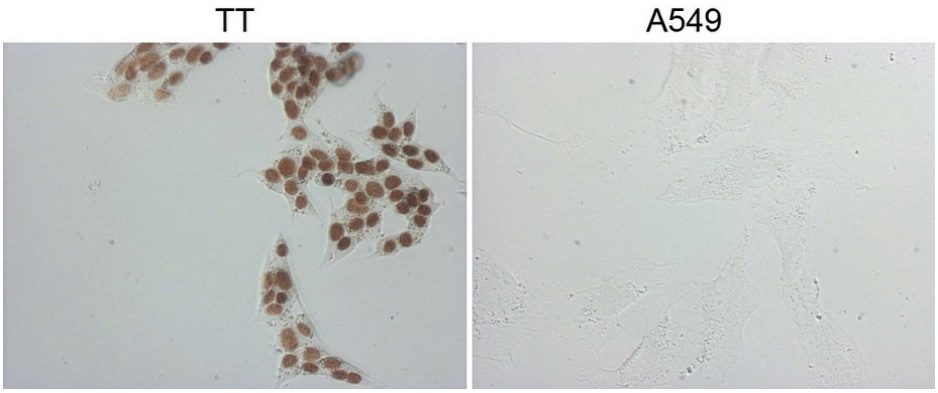
Western blot analysis of extracts (10ug) from 3 different cell lines by using anti-NKX2-1 monoclonal antibody (1:200).



Immunohistochemical staining of paraffin-embedded Human thyroid tissue using anti-NKX2-1 mouse monoclonal antibody. ([TA803185]). Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



Immunocytochemistry staining of NCI-H1975 cells using anti-NKX2-1 mouse monoclonal antibody ([TA803185]). The right is A549 cells as negative control.



Immunocytochemistry staining of TT cells using anti-NKX2-1 mouse monoclonal antibody ([TA803185]). The right is A549 cells as negative control.