bs-0826R **[Primary Antibody]**

TTF1/NKX2-1 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 7080 **SWISS:** P43699

Target: TTF1/NKX2-1

Immunogen: KLH conjugated synthetic peptide derived from human TTF-1: 201-300/372.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

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 2011]

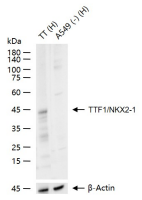
Applications: **WB** (1:200-1000)
IHC-P (1:50-200)
IHC-F (1:50-200)
IF (1:50-200)
Flow-Cyt (1μg/Test)
ICC/IF (1:50-1:200)

Reactivity: Human, Mouse, Rat

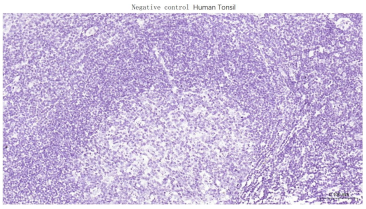
Predicted MW.: 38 kDa

Subcellular Location: Nucleus

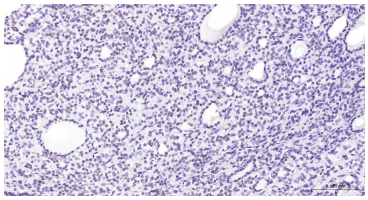
VALIDATION IMAGES



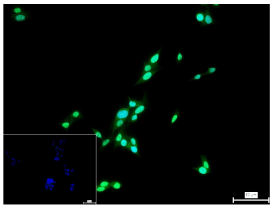
25 ug total protein per lane of various lysates (see on figure) probed with TTF1/NKX2-1 polyclonal antibody, unconjugated (bs-0826R) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



(Negative control) Paraformaldehyde-fixed, paraffin embedded Human Tonsil; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with TTF1/NKX2-1 Polyclonal Antibody, Unconjugated (bs-0826R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.



Paraformaldehyde-fixed, paraffin embedded Human Thyroid Gland; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with TTF1/NKX2-1 Polyclonal Antibody, Unconjugated (bs-0826R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.



4% Paraformaldehyde-fixed TT (H) cell; Triton X-100 at r.t. for 20 min; Antibody incubation with (TTF1/NKX2-1) polyclonal Antibody, unconjugated (bs-0826R) 1:100, 90 min at 37°C; followed by conjugated Goat Anti-Rabbit IgG

antibody (green, bs-40295G-FITC) at 37°C for 90 min, DAPI (blue, C02-04002) was used to stain the cell nuclei. PBS instead of the primary antibody was used as the blank control.

SELECTED CITATIONS

- **[IF=4.872]** Dong X et al. PM2.5 disrupts thyroid hormone homeostasis through activation of the hypothalamic-pituitary-thyroid (HPT) axis and induction of hepatic transthyretin in female rats 2.5Ecotoxicol Environ Saf.2021 Jan 15;208:111720. IHC,WB ;Rat. 33396051
- **[IF=4.223]** Dong, Xinwen. et al. Protective effects of curcumin against thyroid hormone imbalance after gas explosion-induced traumatic brain injury via activation of the hypothalamic-pituitary-thyroid axis in male rats. ENVIRON SCI POLLUT R. 2022 May;:1-13 WB,IHC ;Rat. 35641736
- **[IF=3.14]** Huang, Huibin, et al. "Upregulation of thyroid transcription factor-1 and human leukocyte antigen class I in Hashimoto's disease providing a clinical evidence for possible triggering autoimmune reaction." European Journal of Endocrinology 164.5 (2011): 795-800. WB,IHC ;="Human". 21343336
- **[IF=1.38]** Vadasz, Stephanie, et al. "Second and third trimester amniotic fluid mesenchymal stem cells can repopulate a de-cellularized lung scaffold and express lung markers." Journal of Pediatric Surgery (2014). Other ;="Human". 25475793