bs-0826R

[Primary Antibody]

Bioss

www.bioss.com.cn sales@bioss.com.cn techsupport@bioss.com.cn 400-901-9800

TTF1/NKX2-1 Rabbit pAb

- DATASHEET -

Host: Rabbit Isotype: IgG

Clonality: Polyclonal

GenelD: 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 neither range transcription termination factor 1, which place a role

another gene, transcription termination factor 1, which plays a role in ribosomal gene transcription. [provided by RefSeq, Apr 2011]

Applications: WB (1:500-2000)

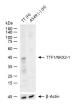
IHC-P (1:100-500) IHC-F (1:100-500) IF (1:100-500) Flow-Cyt (1µg/Test) ICC/IF (1:50-200)

Reactivity: Human, Mouse, Rat

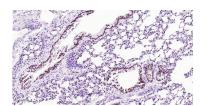
Predicted MW.: 38 kDa

Subcellular Location: Nucleus

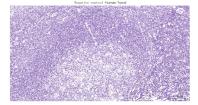
VALIDATION IMAGES



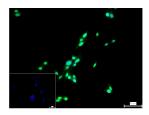
25 ug total protein per lane of various lysates (see on figure) probed with TTF1/NKX2-1 polyclonal antibody, unconjugated (bs-0826R) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



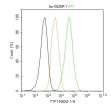
Paraformaldehyde-fixed, paraffin embedded Mouse Lung; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with TTF1/NKX2-1 Monoclonal Antibody, Unconjugated(bs-0826R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.



(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.



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



The TT (H) cells were fixed with 4% PFA (10 min at r.t.) and then permeabilized with 90% ice-cold methanol for 20 min at -20 °C, the cells then were incubated in 5%BSA to block non-specific protein-protein interactions (30 min at r.t.),

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.

followed by secondary antibody incubation for 40 min at room temperature. Primary Antibody (green): Rabbit Anti-TTF1/NKX2-1 antibody (bs-0826R): 1 μ g/10^6 cells; Isotype Control (orange): Rabbit IgG (bs-0295P). Blank control (black): PBS. Acquisition of 20,000 events was performed.

- 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