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Goat Anti-FOXE1 / TTF2 Antibody

Peptide-affinity purified goat antibody

Catalog # AF1429a

Specification

Goat Anti-FOXE1 / TTF2 Antibody - Product Information

Application	**IHC**
Primary Accession	O00358
Other Accession	NP_004464, 2304
Reactivity	**Human**
Host	**Goat**
Clonality	**Polyclonal**
Concentration	**100ug/200ul**
Isotype	**IgG**
Calculated MW	**38076**

Goat Anti-FOXE1 / TTF2 Antibody - Additional Information

Gene ID 2304

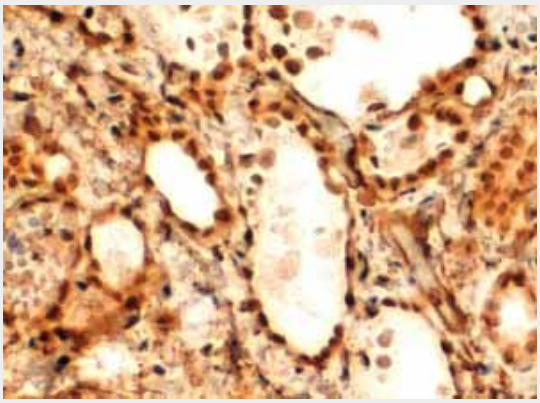
Other Names
Forkhead box protein E1, Forkhead box protein E2, Forkhead-related protein FKHL15, HFKH4, HNF-3/fork head-like protein 5, HFKL5, Thyroid transcription factor 2, TTF-2, FOXE1, FKHL15, FOXE2, TITF2, TTF2

Format
0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

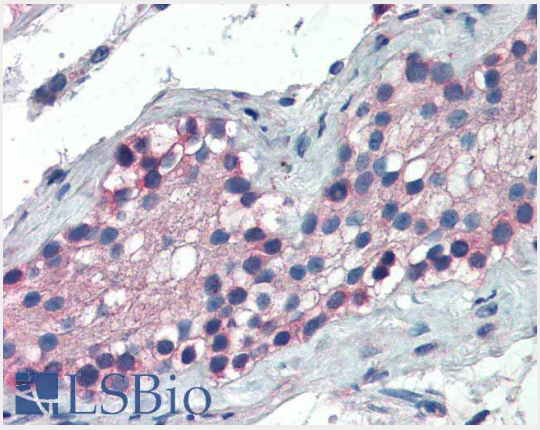
Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
Goat Anti-FOXE1 / TTF2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-FOXE1 / TTF2 Antibody - Protein Information



AF1429a (2 µg/ml) staining of paraffin embedded Human Thyroid Gland. Steamed antigen retrieval with Tris/EDTA buffer pH 9, HRP-staining.



AF1429a (5 µg/ml) staining of paraffin embedded Human Testis. Steamed antigen retrieval with Tris/EDTA buffer pH 9, HRP-staining.

Goat Anti-FOXE1 / TTF2 Antibody - Background

This intronless gene belongs to the forkhead family of transcription factors, which is characterized by a distinct forkhead domain. This gene functions as a thyroid transcription factor which likely plays a crucial role in thyroid morphogenesis. Mutations in this gene

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Name FOXE1

Synonyms FKHL15, FOXE2, TITF2, TTF2

Function
Transcription factor that binds consensus sites on a variety of gene promoters and activate their transcription. Involved in proper palate formation, most probably through the expression of MSX1 and TGFB3 genes which are direct targets of this transcription factor. Also implicated in thyroid gland morphogenesis. May indirectly play a role in cell growth and migration through the regulation of WNT5A expression.

Cellular Location
Nucleus.

Tissue Location
Detected in adult brain, placenta, lung, liver, skeletal muscle, kidney, pancreas, heart, colon, small intestine testis and thymus. Expression was strongest in heart and pancreas

Goat Anti-FOXE1 / TTF2 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

are associated with congenital hypothyroidism and cleft palate with thyroid dysgenesis. The map localization of this gene suggests it may also be a candidate gene for squamous cell epithelioma and hereditary sensory neuropathy type I.

Goat Anti-FOXE1 / TTF2 Antibody - References

Genetic variants in COL2A1, COL11A2, and IRF6 contribute risk to nonsyndromic cleft palate. Nikopensius T, et al. Birth Defects Res A Clin Mol Teratol, 2010 Jul 29. PMID 20672350.
Maternal genes and facial clefts in offspring: a comprehensive search for genetic associations in two population-based cleft studies from Scandinavia. Jugessur A, et al. PLoS One, 2010 Jul 9. PMID 20634891.
Follow-up association studies of chromosome region 9q and nonsyndromic cleft lip/palate. Letra A, et al. Am J Med Genet A, 2010 Jul. PMID 20583170.
MTHFR and MSX1 contribute to the risk of nonsyndromic cleft lip/palate. Jagom□gi T, et al. Eur J Oral Sci, 2010 Jun. PMID 20572854.
Association between genetic variants of reported candidate genes or regions and risk of cleft lip with or without cleft palate in the polish population. Mostowska A, et al. Birth Defects Res A Clin Mol Teratol, 2010 Jul. PMID 20544801.