

Product datasheet for AP09633PU-N

OriGene Technologies, Inc.

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FOXE1 (C-term) Goat Polyclonal Antibody

Product data:

Product Type: Primary Antibodies

Applications: ELISA, IHC

Recommended Dilution: Peptide ELISA: 1/8000 (Detection Limit).

Western blot: Preliminary experiments gave an approx 70kDa band in Human Thymus and Thyroid Gland lysates after 0.3µg/ml antibody staining. Please note that currently we cannot find an explanation in the literature for the band we observe given the calculated size of 38.1kDa according to NP_004464.2. The 65kDa band was successfully blocked by incubation

with the immunizing peptide.

Immunohistochemistry on Paraffin Sections: 2-4 µg/ml.

In paraffin embedded Human Testis this antibody shows strong nuclear staining in

developing sperm cells.

In paraffin embedded Human Thyroid Gland this antibody shows nuclear staining in

thyrocytes.

Reactivity: Human Host: Goat

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Clonality:

Immunogen: Synthetic peptide C-AYPGGIDRFVSAM from the C-terminus of Human FOXE1 (NP_004464.2).

Specificity: Recognizes FOXE1 / TTF2 at C-term.

Polyclonal

Formulation: Tris saline, pH~7.3

State: Aff - Purified

State: Liquid purified Ig fraction.

Stabilizer: 0.5% BSA

Preservative: 0.02% Sodium Azide

Concentration: lot specific

Purification: Ammonium Sulphate Precipitation followed by antigen Affinity Chromatography using the

immunizing peptide.

Conjugation: Unconjugated

Storage: Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.

Avoid repeated freezing and thawing.





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Stability: Shelf life: one year from despatch.

Gene Name: forkhead box E1

Database Link: Entrez Gene 2304 Human

O00358

Background: Forkhead box protein E1 (FOXE1) is a member of the forkhead/ winged-helix domain

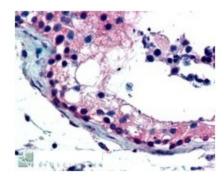
transcription factor family. FOXE1, also designated FKHL15 or TTF-2, complexes with TTF-1 and Pax-8 to induce thyroid follicular cell differentiation and thyroid hormone biosynthesis by regulating the expression of the sodium iodide symporter (NIS), thyroid peroxidase (TPO), thyroglobulin (TG) and the thyrotropin receptor (TSHR). FOXE1 encodes a protein that is expressed in several tissues, including thymus, adult brain, lung, liver, heart and pancreas. The chromosomal location of the FOXE1 gene on 9q22 suggests that it may be involved in squamous cell epithelioma and hereditary sensory neuropathy type I. Mutations in the FOXE1 gene lead to the development of congenital hypothyroidism, which occurs in approximately one in four thousand newborns and results in complete or partial failure of thyroid gland development. Patients who are homozygous for a missense mutation in the forkhead domain of he FOXE1 gene can also develop thyroid agenesis, cleft palate and choanal atresia.

Subsequently, the FOXE1 gene may used as a marker to study these disorders.

Synonyms: FOXE2, TITF2, TTF2, HFKL5, HFKH4, TTF-2

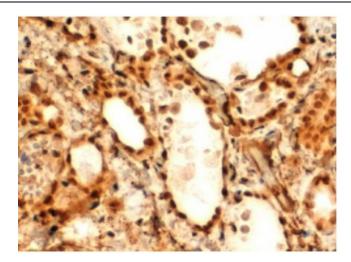
Protein Families: Druggable Genome, Transcription Factors

Product images:



FOXE1 antibody staining of Paraffin Embedded Human Testis at 2.5ug/ml. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.





FOXE1 antibody staining of Paraffin Embedded Human Thyroid Gland at 2 ug/ml. Steamed antigen retrieval with Tris/EDTA buffer pH 9, HRP-staining.