

FOXE1 Rabbit pAb

Catalog # AP97060

Product Information

Application	WB
Primary Accession	O00358
Other Accession	O00358
Host	Rabbit
Clonality	Polyclonal
Calculated MW	38076
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human FOXE1
Epitope Specificity	101-200/373
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Contains 1 fork-head DNA-binding domain.
Post-translational modifications	Phosphorylated.
DISEASE	Defects in FOXE1 are the cause of Bamforth-Lazarus syndrome (BLS) [MIM:241850]. BLS is associated with thyroid agenesis, cleft palate and choanal atresia.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Thyroid transcription factor 2 (TTF2; Forkhead; TH; also known as a "winged helix") . FH is named for the Drosophila fork head protein, a transcription factor which promotes terminal rather than segmental development. This family of transcription factor domains, which bind to B-DNA as monomers, are also found in the Hepatocyte nuclear factor (HNF) proteins, which provide tissue-specific gene regulation. The structure contains 2 flexible loops or "wings" in the C-terminal region, hence the term winged helix. Transcription factor that binds and activates the promoter of thyroid specific genes such as thyroglobulin, thyroperoxidase, and thyrotropin receptor. Crucial in the maintenance of the thyroid differentiation phenotype. May play a role in lung development and surfactant homeostasis. TISSUE SPECIFICITY: Thyroid and lung. subcellular location: Nucleus Belongs to the NK-2 homeobox family.

Additional Information

Gene ID	2304
Other Names	BAMLAZ; FKHL15; FOXE2; HFKH4; HFKL5; NMTC4; TTF2; TTF-2; TTF2; FOXE1_HUMAN; FOXE1; Forkhead box protein E2; Forkhead-related protein FKHL15; HNF-3/fork head-like protein 5 (HFKL5); Thyroid transcription factor 2 (TTF-2); forkhead box E1; forkhead box E2; forkhead box E1 (thyroid transcription factor 2); thyroid transcription factor 2

Dilution	WB=1:500-2000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.