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FOXL2 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP10166A

Product Information

Application	WB, FC, E
Primary Accession	P58012
Other Accession	NP_075555.1
Reactivity	Mouse, Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB22898
Calculated MW	38772
Antigen Region	3-29

Additional Information

Gene ID	668
Other Names	Forkhead box protein L2, FOXL2
Target/Specificity	This FOXL2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 3-29 amino acids from the N-terminal region of human FOXL2.
Dilution	WB~~1:1000 FC~~1:10~50 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	FOXL2 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	FOXL2
Function	Transcriptional regulator. Critical factor essential for ovary differentiation and maintenance, and repression of the genetic program for somatic testis determination. Prevents trans- differentiation of ovary to testis through transcriptional repression of the Sertoli cell-promoting gene SOX9 (By

	similarity). Has apoptotic activity in ovarian cells. Suppresses ESR1-mediated transcription of PTGS2/COX2 stimulated by tamoxifen (By similarity). Is a regulator of CYP19 expression (By similarity). Participates in SMAD3-dependent transcription of FST via the intronic SMAD-binding element (By similarity). Is a transcriptional repressor of STAR. Activates SIRT1 transcription under cellular stress conditions. Activates transcription of OSR2.
Cellular Location	Nucleus {ECO:0000255|PROSITE-ProRule:PRU00089, ECO:0000269|PubMed:19744555}
Tissue Location	In addition to its expression in the developing eyelid, it is transcribed very early in somatic cells of the developing gonad (before sex determination) and its expression persists in the follicular cells of the adult ovary

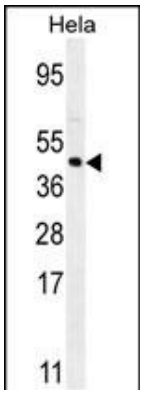
Background

This gene encodes a forkhead transcription factor. The protein contains a fork-head DNA-binding domain and may play a role in ovarian development and function. Mutations in this gene are a cause of blepharophimosis syndrome and premature ovarian failure 3.

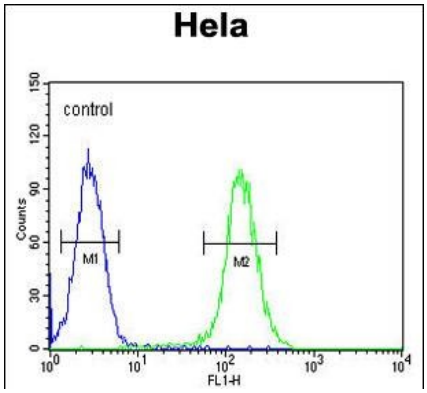
References

Nakashima, M., et al. Nat. Genet. 42(9):768-771(2010) Kraoua, L., et al. Clin. Genet. 77(6):601-603(2010) Murphy, B.D. Nat. Med. 16(5):527-529(2010) Corpuz, P.S., et al. Mol. Endocrinol. 24(5):1037-1051(2010) Kim, T., et al. Histopathology 56(3):408-410(2010)

Images



FOXL2 Antibody (N-term) (Cat. #AP10166a) western blot analysis in Hela cell line lysates (35ug/lane).This demonstrates the FOXL2 antibody detected the FOXL2 protein (arrow).



FOXL2 Antibody (N-term) (Cat. #AP10166a) flow cytometric analysis of Hela cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

Citations

- The Emerging Role of FOXL2 in Regulating the Transcriptional Activation Function of Estrogen Receptor β: An Insight Into Ovarian Folliculogenesis.

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