

Anti-FOXN1 Antibody

Catalog # AP51660

Product Information

Application	WB
Primary Accession	O15353
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	68925

Additional Information

Gene ID	8456
Other Names	RONU; WHN; Forkhead box protein N1; Winged-helix transcription factor nude
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human FOXN1. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000)
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

Name	FOXN1
Synonyms	RONU, WHN
Function	Transcriptional regulator which regulates the development, differentiation, and function of thymic epithelial cells (TECs) both in the prenatal and postnatal thymus. Acts as a master regulator of the TECs lineage development and is required from the onset of differentiation in progenitor TECs in the developing fetus to the final differentiation steps through which TECs mature to acquire their full functionality. Regulates, either directly or indirectly the expression of a variety of genes that mediate diverse aspects of thymus development and function, including MHC Class II, DLL4, CCL25, CTSL, CD40 and PAX1. Regulates the differentiation of the immature TECs into functional cortical TECs (cTECs) and medullary TECs (mTECs). Essential for maintenance of mTECs population in the postnatal thymus. Involved in the morphogenesis and maintenance of the three-dimensional thymic microstructure which is necessary for a fully functional thymus. Plays an important role in the

maintenance of hematopoiesis and particularly T lineage progenitors within the bone marrow niche with age. Essential for the vascularization of the thymus anlage. Promotes the terminal differentiation of epithelial cells in the epidermis and hair follicles, partly by negatively regulating the activity of protein kinase C (By similarity). Plays a crucial role in the early prenatal stages of T-cell ontogeny (PubMed:[21507891](#)).

Cellular Location

Nucleus.

Tissue Location

Expressed in thymus.

References

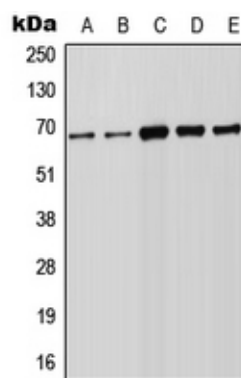
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Ota T.,et al.Nat. Genet. 36:40-45(2004).

Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.

Frank J.,et al.Nature 398:473-474(1999).

Images



Western blot analysis of FOXN1 expression in Raji (A), HeLa (B), A549 (C), NIH3T3 (D), PC12 (E) whole cell lysates. (Predicted band size: 68 kD; Observed band size: 69 kD)

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