

For Research Use Only

FOXN1 Monoclonal antibody

Catalog Number: 66337-1-Ig 1 Publications



Basic Information

| | | |
|---|---------------------------------------|---|
| Catalog Number: 66337-1-Ig | GenBank Accession Number: BC146539 | Purification Method: Protein G purification |
| Size: 150ul , Concentration: 1600 ug/ml by Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard; | GeneID (NCBI): 8456 | CloneNo.: 1D8B12 |
| Source: Mouse | UNIPROT ID: O15353 | Recommended Dilutions: WB 1:500-1:2000 IHC 1:250-1:1000 |
| Isotype: IgG1 | Full Name: forkhead box N1 | |
| Immunogen Catalog Number: AG18207 | Calculated MW: 648 aa, 69 kDa | |
| | Observed MW: 60 kDa | |

Applications

| | |
|--|---|
| Tested Applications: WB, IHC, ELISA, FC (Intra) | Positive Controls: WB : Raji cells, Jurkat cells IHC : mouse thymus tissue, |
| Cited Applications: WB | |
| Species Specificity: human | |
| Cited Species: human | |
| Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0 | |

Background Information

FOXN1, also named as Forkhead box protein N1, is a 648 amino acid protein, which contains 1 fork-head DNA-binding domain and localizes in the nucleus. FOXN1 as transcriptional regulator regulates the development, differentiation, and function of thymic epithelial cells (TECs) both in the prenatal and postnatal thymus. FOXN1 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.

Notable Publications

| Author | Pubmed ID | Journal | Application |
|------------|-----------|------------|-------------|
| Ya Nan Zhu | 38773155 | Nat Commun | WB |

Storage

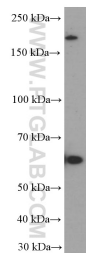
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

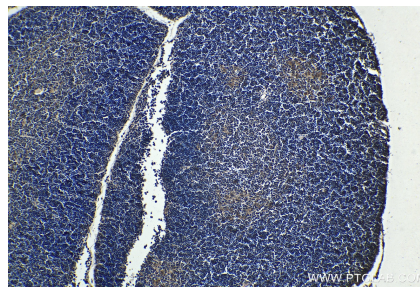
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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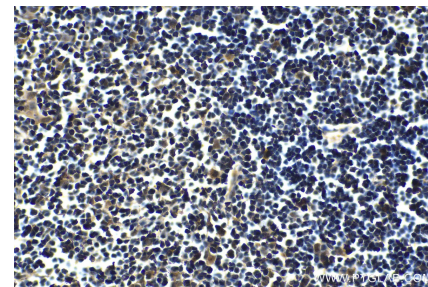
Selected Validation Data



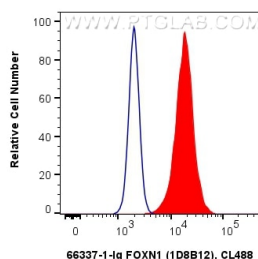
Raji cells were subjected to SDS PAGE followed by western blot with 66337-1-Ig (FOXN1 Antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse thymus tissue slide using 66337-1-Ig (FOXN1 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse thymus tissue slide using 66337-1-Ig (FOXN1 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1X10⁶ A549 cells were intracellularly stained with 0.4 ug Anti-Human FOXN1 (66337-1-Ig, Clone:1D8B12) and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Mouse IgG1 Isotype Control (MOPC-21) (65124-1-Ig, Clone: MOPC-21) (blue). Cells were fixed and permeabilized with True-Nuclear Transcription Factor Buffer Set.