

**FOXP1, 7 ml Ready to use
Polyclonal
Cat. no.: MON-RTU1218**

Specificity

The FOXP1 gene is located at 3p13 and codes for a member of the FOX family of transcription factors. The proteins in this family take part in a wide range of normal developmental events, including the control of cellular differentiation and proliferation, immune regulation, and signal transduction. FOX transcription factors are implicated in carcinogenesis through retroviral integration, transcriptional regulation, chromosomal translocation, and gene amplification. FOXP1 is expressed in normal activated B cells in the mantle zone and germinal center (lymph node). FOXP1 nuclear labeling in diffuse large B-cell lymphoma (DLBCL) has been associated with a poor overall survival in studies by A H Banham et al and S L Barrans et al. FOXP1 expression in mucosa-associated lymphoid tissue lymphomas was also associated with transformation to diffuse large B-cell lymphoma in a study by X Sagaert et al. In the setting of primary cutaneous lymphoma, FOXP1 expression is found in the B-cell lymphoma, leg type and may serve as an additional diagnostic marker for this entity.

Associated products: PAX-5, PU.1, BOB.1, Oct-2, bcl-6, CD20, CD3

Use

Paraffin, Frozen

Preparation and Pretreatment

1. Cut 3-4 μm section of formalin-fixed paraffin-embedded tissue and place on positively charged slides; dry overnight at 58 °C.
2. Deparaffinize, rehydrate, and epitope retrieve; the preferred method is the use of Heat Induced Epitope Retrieval (HIER) techniques in conjunction with a pressure cooker. The preferred method allows for simultaneous deparaffinization, rehydration, and epitope retrieval. Upon completion, rinse with 5 changes of distilled or deionized water.
3. If using HRP detection system, place slides in peroxide block for 10 minutes; rinse. If using AP detection system, omit this step.

Positive control

Tonsil, lymph node

Staining pattern

Nuclear

Presentation

7 ml. prediluted. Ready to use

Anti-FOXP1 is a rabbit polyclonal antibody purified from anti-sera diluted in phosphate buffered saline, pH 7.4, with protein base, and preserved with sodium azide.

MONOSAN, a brand name of SANBIO B.V.

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Storage & handling

Store antibody at 2-8°C until expiry date. For extended storage, the solution may be frozen in suitable aliquots. Avoid freeze/thaw cycles.

References

1. Hoefnagel JJ, Mulder MM, Dreef E, Jansen PM, Pals ST, Meijer CJ, Willemze R, Vermeer MH. Expression of B-cell transcription factors in primary cutaneous B-cell lymphoma. *Mod Pathol.* 2006 Sep;19(9):1270-6. Epub 2006 Jun 16.
2. Sagaert X, de Paepe P, Libbrecht L, Vanhentenrijk V, Verhoef G, Thomas J, Wlodarska I, De Wolf-Peeters C. Forkhead box protein P1 expression in mucosa-associated lymphoid tissue lymphomas predicts poor prognosis and transformation to diffuse large B-cell lymphoma. *J Clin Oncol.* 2006 Jun 1;24(16):2490-7. Epub 2006 Apr 24.
3. Barrans SL, Fenton JAL, Banham A, Owen RG, Jack AS. Strong expression of FOXP1 identifies a distinct subset of diffuse large B-cell lymphoma (DLBCL) patients with poor outcome. *Blood* 2004 104: 2933-2935
4. Banham AH, Connors JM, Brown PJ, Cordell JL, Ott G, Sreenivasan G, Farinha P, Horsman DE, Gascoyne RD. Expression of the FOXP1 transcription factor is strongly associated with inferior survival in patients with diffuse large B-cell lymphoma. *Clin Cancer Res.* 2005 Feb 1;11(3):1065-72.

Also available on request:

1 ml, prediluted Ready to use
0.1 ml, concentrate 1:50 -1:500*
0.5 ml, concentrate 1:50 -1:500*
1 ml, concentrate 1:50 -1:500*

* The dilutions set forth above are estimates; actual results may differ because of variability in methods and protocols. Validation of antibody performance/protocol is the responsibility of the end user.

FOR RESEARCH USE ONLY, NOT FOR DRUG, DIAGNOSTIC OR OTHER USE.

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