

Mouse Anti-Pokemon/LRF/ZBTB7A/FBI1 [BC17-2.9F]: MC0541

Intended Use: For Research Use Only

Description: Pokemon (LRF/ZBTB7A/FBI1) is a member of the POK family of transcriptional repressors, and is expressed in hematopoietic stem cells, T and B lymphocytes, macrophages, and erythroid cells. This protein is also highly expressed in human non-Hodgkin's lymphoma tissues and diffuse large B-cell lymphomas, demonstrating its prominent role in oncogenic transformation. Studies have demonstrated that LRF is also involved in B cell lineage commitment and development by opposing Notch signaling. Moreover, LRF is critical for erythroid terminal differentiation in the bone marrow by inhibiting Bim-mediated apoptosis. Finally, LRF interacts with Bcl-6 in germinal center B cells. It functions as a transcriptional repressor of the p19 arf p53, and RB tumor suppressor genes and works in concert with oncogenes and other proteins associated with the promotion of cell growth. Pokemon overexpression has been shown to cause activation of membrane type 1-matrix metalloproteinase which is associated with adverse outcome in ovarian cancers and increased drug resistance. These properties are thought to impart its role in oncogenesis. In this context, Pokemon is regarded as a marker of aggressive tumors and may thus serve as a useful marker of poor prognosis in cancers. It is also being reviewed as a target for inhibiting oncogenesis.

Specifications

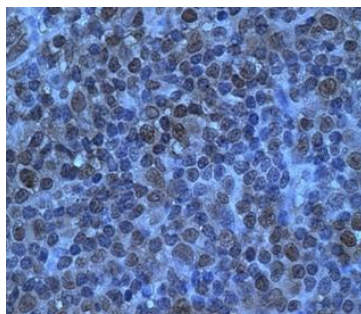
Clone:	BC17-2.9F
Source:	Mouse
Isotype:	IgG1
Reactivity:	Human
Localization:	Nucleus
Formulation:	Antibody in PBS pH 7.4, containing BSA and $\leq 0.09\%$ sodium azide (NaN ₃)
Storage:	Store at 2°- 8°C
Applications:	IHC, IF, WB
Package:	

Description	Catalog No.	Size
Pokemon/LRF/ZBTB7A/FBI1 [BC17-2.9F] Concentrated	MC0541	1 ml

IHC Procedure*

Positive Control Tissue:	Bladder carcinoma, tonsil
Concentrated Dilution:	10-50
Pretreatment:	Tris EDTA pH9.0, 15 minutes Pressure Cooker or 30-60 minutes water bath at 95°-99°C
Incubation Time and Temp:	30-60 minutes @ RT
Detection:	Refer to the detection system manual

* Result should be confirmed by an established diagnostic procedure.



FFPE human tonsil stained with anti-Pokemon using DAB

References:

1. IGF2BP1 overexpression causes fetal-like hemoglobin expression patterns in cultured human adult erythroblasts. de Vasconcellos JF, et al. Proc Natl Acad Sci U S A 114:E5664-E5672 , 2017.
2. Negative feedback loop between ZBTB7A and TGF- β in breast cancer. Shen Y, et al. Oncol Lett 14:1403-1410, 2017.
3. Somatic human ZBTB7A zinc finger mutations promote cancer progression. Liu XS et al. Oncogene. Jun 9;35(23):3071-8, 2016.

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