

## Anti-Human Pokemon (LRF) Purified

**Catalog Number:** 14-3309

Also known as: Zbtb7a

**RUO: For Research Use Only**

### Product Information

**Contents:** Anti-Human Pokemon (LRF)  
Purified



**Catalog Number:** 14-3309

**Clone:** 13E9

**Concentration:** 0.5 mg/mL

**Host/Isotype:** Armenian Hamster IgG



**Formulation:** aqueous buffer, 0.09% sodium azide, contains stabilizer if necessary

**Temperature Limitation:** Store at 2-8°C.

**Batch Code:** Refer to vial

**Use By:** Refer to vial

### Description

This monoclonal antibody reacts with human Leukemia/lymphoma-related factor (LRF). This 65-kDa protein is also known as POKEMON, FBI-1, and Zbtb7a. LRF 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.

### Applications Reported

**For research use only, not for diagnostic or therapeutic use.** This 13E9 antibody has been reported for use in immunoblotting (WB) and immunohistochemical staining of formalin-fixed paraffin embedded tissue sections.

### Applications Tested

This 13E9 antibody has been tested by western blot analysis of the A20 cell line and by immunohistochemical staining of formalin-fixed paraffin embedded human tonsil tissue. This can be used at 1-10 ug/mL. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

### References

Maeda T, Ito K, Merghoub T, Polisenio L, Hobbs RM, Wang G, Dong L, Maeda M, Dore LC, Zelent A, Luzzatto L, Teruya-Feldstein J, Weiss MJ, Pandolfi PP. LRF is an essential downstream target of GATA1 in erythroid development and regulates BIM-dependent apoptosis. *Dev Cell*. 2009 Oct;17(4):527-40.

Maeda T, Merghoub T, Hobbs RM, Dong L, Maeda M, Zakrzewski J, van den Brink MR, Zelent A, Shigematsu H, Akashi K, Teruya-Feldstein J, Cattoretti G, Pandolfi PP. Regulation of B versus T lymphoid lineage fate decision by the proto-oncogene LRF. *Science*. 2007 May 11;316(5826):860-6. (13E9, WB, Pubmed)

Maeda T, Hobbs RM, Merghoub T, Guernah I, Zelent A, Cordon-Cardo C, Teruya-Feldstein J, Pandolfi PP. Role of the proto-oncogene Pokemon in cellular transformation and ARF repression. *Nature*. 2005 Jan 20;433(7023):278-85.

### Related Products

13-4113 Anti-Armenian Hamster IgG Biotin (Polyclonal)

14-4888 Armenian Hamster IgG Isotype Control Purified (eBio299Arm)

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