

LRF/Pokemon Antibody

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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H Mk	Endogenous	75	Rabbit	#O95365	51341

Product Usage Information**Application**

Western Blotting

Dilution

1:1000

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

LRF/Pokemon Antibody recognizes endogenous levels of total LRF (Pokemon) protein.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro241 of human LRF (pokemon) protein. Antibodies are purified by protein A and peptide affinity chromatography.

Background

Zinc finger and BTB domain-containing protein 7A (LRF, Pokemon, FBI1) is a transcriptional repressor encoded by the *ZBTB7A* gene that belongs to the POK (POZ and *Kruppel*)/ZBTB (zinc finger and BTB) family (1). LRF is broadly expressed with elevated expression in a variety of cancers relative to normal tissues, including non-small cell lung cancer, breast cancer, ovarian cancer, prostate cancer, and hepatocellular carcinoma (1-8). Research studies suggest that LRF acts as an oncogene through various mechanisms including repression of the tumor suppressors ARF and Rb, and repression of the cell cycle arrest factor p21Cip1 (9-11). The LRF transcription factor plays key roles during several stages of hematopoiesis including promoting lymphoid progenitor cells to commit to B cell differentiation by repressing T cell-promoting Notch signals, and promoting cell survival during terminal erythroid differentiation through suppression of the proapoptotic factor Bim (12,13).

Background References

1. Lee, S.U. and Maeda, T. (2012) *Immunol Rev* 247, 107-19.
2. Apostolopoulou, K. et al. (2007) *J Pathol* 213, 294-302.
3. Zhao, Z.H. et al. (2008) *Lung Cancer* 62, 113-9.
4. Qu, H. et al. (2010) *Cancer Invest* 28, 672-8.
5. Aggarwal, A. et al. (2010) *Exp Mol Pathol* 89, 140-8.
6. Jiang, L. et al. (2010) *Mol Cancer* 9, 318.
7. Aggarwal, H. et al. (2011) *Exp Mol Pathol* 90, 226-30.
8. Fang, F. et al. (2012) *Cancer* 118, 134-46.
9. Maeda, T. et al. (2005) *Nature* 433, 278-85.
10. Jeon, B.N. et al. (2008) *J Biol Chem* 283, 33199-210.
11. Choi, W.I. et al. (2009) *J Biol Chem* 284, 12633-44.
12. Maeda, T. et al. (2007) *Science* 316, 860-6.
13. Maeda, T. et al. (2009) *Dev Cell* 17, 527-40.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting

Cross-Reactivity Key

H: Human **Mk:** Monkey

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