

Store at
-20C
#33483

BOB-1/OBF-1 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 M R	Endogenous	35	Rabbit	#Q16633	5450

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

BOB-1/OBF-1 Antibody recognizes endogenous levels of total BOB-1/OBF-1 protein.

Species predicted to react based on 100% sequence homology

Dog, Pig

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro209 of human BOB-1/OBF-1 protein. Antibodies are purified by protein A and peptide affinity chromatography.

Background

B cell Oct binding factor-1 (BOB-1/OBF-1) is a B cell restricted transcriptional coactivator. BOB-1 facilitates transactivation of immunoglobulins and other B cell specific genes through the binding and activation of the transcription factors Oct-1 and Oct-2 (1-4). Research studies have demonstrated that BOB-1 expression is required for antigen-dependent B cell maturation (5-7). In pathological conditions such as classical Hodgkin disease, loss of BOB-1 expression is thought, in part, to contribute to the defect in immunoglobulin gene expression by Hodgkin and Reed Sternberg cells (8,9). In the context of multiple myeloma, overexpression of BOB-1 has been shown to contribute to malignant plasma cell growth, in part, through enhanced transactivation of *TNFRSF17/BCMA* (10).

Background References

1. Strubin, M. et al. (1995) *Cell* 80, 497-506.
2. Laumen, H. et al. (2000) *Eur J Immunol* 30, 458-69.
3. Gstaiger, M. et al. (1995) *Nature* 373, 360-2.
4. Brunner, C. and Wirth, T. (2006) *Nucleic Acids Res* 34, 1807-15.
5. Hess, J. et al. (2001) *Mol Cell Biol* 21, 1531-9.
6. Kim, U. et al. (1996) *Nature* 383, 542-7.
7. Schubart, D.B. et al. (1996) *Nature* 383, 538-42.
8. Re, D. et al. (2001) *Cancer Res* 61, 2080-4.
9. Stein, H. et al. (2001) *Blood* 97, 496-501.
10. Zhao, C. et al. (2008) *Oncogene* 27, 63-75.

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 **M:** Mouse **R:** Rat

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