

Anti-BOB1 Antibody

Catalog # ABO10824

Product Information

Application	WB, IHC-P
Primary Accession	Q64693
Host	Rabbit
Reactivity	Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for POU domain class 2-associating factor 1(POU2AF1) detection. Tested with WB, IHC-P in Mouse;Rat.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	18985
Other Names	POU domain class 2-associating factor 1, B-cell-specific coactivator OBF-1, BOB-1, BOB1, OCA-B, OCT-binding factor 1, Pou2af1, Obf-1
Calculated MW	27692
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 μ g/ml, Rat, Mouse, By Heat Western blot, 0.1-0.5 μ g/ml, Mouse
Subcellular Localization	Nucleus.
Tissue Specificity	B-cell specific.
Source	Eukaryota
Protein Name	POU domain class 2-associating factor 1
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg NaN ₃ .
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of mouse BOB1(238-256aa EEEESNTYELNHTLSVEGF), different from the related rat sequence by one amino acid, and from human sequence by four amino acids.
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins

Storage At -20 °C for one year. After reconstitution, at 4 °C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

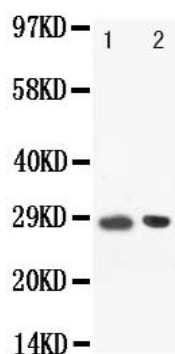
Protein Information

Name	Pou2af1 {ECO:0000312 MGI:MGI:105086}
Synonyms	Obf-1
Function	Transcriptional coactivator that specifically associates with either POU2F1/OCT1 or POU2F2/OCT2. It boosts the POU2F1/OCT1 mediated promoter activity and to a lesser extent, that of POU2F2/OCT2. It recognizes the POU domains of POU2F1/OCT1 and POU2F2/OCT2. It is essential for the response of B-cells to antigens and required for the formation of germinal centers (PubMed: 23045607). Regulates IL6 expression in B cells as POU2F2/OCT2 coactivator (PubMed: 23045607).
Cellular Location	Nucleus.
Tissue Location	B-cell specific..

Background

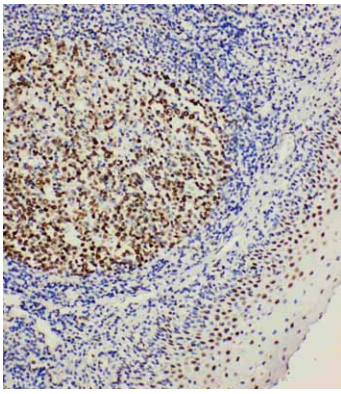
POU2AF1 (POU domain class 2-associating factor 1), also known as OBF1, BOB1 and OCAB, is a protein that in humans is encoded by the POU2AF1 gene. POU domain proteins contain a bipartite DNA-binding domain divided by a flexible linker that enables them to adopt various monomer configurations on DNA. The versatility of POU protein operation is additionally conferred at the dimerization level. Casellas et al. (2002) reported that OCAB is essential for V(D)J recombination of a subset of Ig-kappa genes. They showed that OCAB modulates recombination by directly enhancing Ig-kappa gene transcription in vivo. Siegel et al. (2006) suggested that, together with dysregulation of other OCAB target genes, altered regulation of SYK may help explain the magnitude of defects observed in B-cell development, including the pre-B1-to-pre-B2 transition, and immune responses in Ocab^{-/-} mice.

Images



Anti-BOB1 antibody, ABO10824, Western blotting
Lane: Rat Spleen Tissue Lysate

Anti-BOB1 antibody, ABO10824, IHC(P)
IHC(P): Rat Tonsil Tissue



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