
XPB1 (1C4) Antibody

Subcategory: Mouse Monoclonal Antibody

Cat. No.: 252995

Unit: 0.1 ml

Description:

XPB1 (X-box-binding protein 1) is a transcription factor that regulates MHC class II genes by binding to a promoter element referred to as an X box. XPB1 is a bZIP protein, which was also identified as a cellular transcription factor that binds to an enhancer in the promoter of the T cell leukemia virus type 1 promoter. It may increase expression of viral proteins by acting as the DNA binding partner of a viral transactivator. It has been found that upon accumulation of unfolded proteins in the endoplasmic reticulum (ER), the mRNA of this gene is processed to an active form by an unconventional splicing mechanism that is mediated by the endonuclease inositol-requiring enzyme 1 (IRE1). The resulting loss of 26 nt from the spliced mRNA causes a frame-shift and an isoform XPB1(S), which is the functionally active transcription factor. The isoform encoded by the unspliced mRNA, XPB1(U), is constitutively expressed, and thought to function as a negative feedback regulator of XPB1(S), which shuts off transcription of target genes during the recovery phase of ER stress.

Isotype: Mouse IgG1

Applications: WB

Species Reactivity: H

Format: Each vial contains 0.1 ml ascitic fluid with 0.03% sodium azide.

Alternate Names: X-box-binding protein 1; XPB1-1; Tax-responsive element-binding protein 5; TREB5; XPB2; XPB1

Accession No.: P17861

Antigen: Purified recombinant fragment of human XPB1 expressed in *E. coli*.

Application Notes: WB: 1:500-1:2000;

Storage: Store at 4°C for short term use only. Store at -20°C for storage over 1 month. Product is guaranteed 6 months from the date of shipment.

For research use only, not for diagnostic or therapeutic procedures.