

A Reliable Research Partner in Life Science and Medicine

# **Recombinant XBP1 Monoclonal Antibody**

catalog number: AN301006L

Note: Centrifuge before opening to ensure complete recovery of vial contents.

#### **Description**

Reactivity Human; Mouse; Rat

Immunogen Recombinant Human XBP1 protein

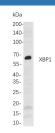
HostRabbitIsotype $IgG,\kappa$ CloneB757PurificationProtein A

Buffer PBS, 50% glycerol, 0.05% Proclin 300, 0.05% protein protectant.

# Applications Recommended Dilution

**IHC** 1:200-1:1000 **WB** 1:1000-1:5000

#### Data

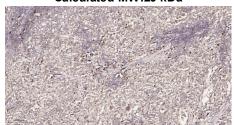




Western Blot with Recombinant XBP1 Monoclonal Antibody Immunohistochemistry of paraffin-embedded mouse spleen at dilution of 1:1000 dilution. Lane A: A549 cells.

Observed-MW:35 kDa.60 kDa dilution of 1:200.

## Observed-MW:35 kDa,60 kDa Calculated-MW:29 kDa



Immunohistochemistry of paraffin-embedded rat spleen tissue using Recombinant XBP1 Monoclonal Antibody at dilution of 1:200.

### **Preparation & Storage**

Storage Storage Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles.

Shipping Ice bag

#### **Background**

### For Research Use Only

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This gene encodes a transcription factor that regulates MHC class II genes by binding to a promoter element referred to as an X box. This gene product 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 XBP1(S), which is the functionally active transcription factor.

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