**Basic Information**

- **Catalog Number:** 25997-1-AP
- **Size:** 61 μg/150 μl
- **Source:** Rabbit
- **Isotype:** IgG
- **Purification Method:** Antigen affinity purification

**Immunogen Catalog Number:** AG2174

**GenBank Accession Number:** BC000938
**GeneID (NCBI):** 7494
**Full Name:** X-box binding protein 1
**Calculated MW:** 261aa, 29 kDa
**Observed MW:** 32 kDa

**Recommended Dilutions:**
- **WB:** 1:200-1:1000
- **IHC:** 1:50-1:500

**Applications**

- **Tested Applications:** IHC, WB, ELISA
- **Cited Applications:** IF, IHC, WB
- **Species Specificity:** human, mouse, rat
- **Cited Species:** human, rat

**Notable Publications**

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**Background Information**

X-box-binding protein 1 (XBP1), also named as TREB5, is a 261 amino acid protein, which contains one bZIP domain and belongs to the bZIP family. XBP1 localizes in the nucleus and as a transcription factor is essential for hepatocyte growth, the differentiation of plasma cells, the immunoglobulin secretion, and the unfolded protein response. XBP1 has an association with major affective disorder. The molecular weight of protein generated from the spliced XBP1 mRNA is 54 kDa and protein generated from unspliced Xbp1 mRNA is 33 kDa.

**Storage**

- **Storage:** Store at -20°C. Stable for one year after shipment.
- **Storage Buffer:** PBS with 0.1% sodium azide and 50% glycerol pH 7.3.
- **Aliquoting is unnecessary for -20°C storage**
Selected Validation Data

Rat spleen tissue were subjected to SDS-PAGE followed by western blot with 25997-1-AP XBP1 Antibody at dilution of 1:300 incubated at room temperature for 1.5 hours.

Immunohistochemistry of paraffin-embedded human breast cancer tissue slide using 25997-1-AP XBP1 Antibody at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieved with TRIS-EDTA buffer (pH 9).