

## XBP1

### Rabbit Anti-Human X-box Binding Protein 1 (CT)

### Clone Poly6195 Affinity Purified pAb

<b>Catalog No.</b>	CSI12543	<b>Quantity:</b>	50 µl
	CSI12544		200 µl

**Alternate Names:** X-box binding protein 1, XBP1

**Description:** Xbp-1 (X-box binding protein 1) is a ubiquitously expressed 29 kD member of the CREB/ATF transcription factor family, and a mammalian homologue of the yeast transcription factor Hac1. Xbp-1 regulates MHC class II genes by binding to the X-box promoter motif and can also bind to the enhancer in T cell leukemia virus type I promoter to increase viral protein expression by binding the viral transactivator. This transcription factor is essential for hepatocyte differentiation and can be upregulated by ER stress, IL-6, and IL-4. The PAX5 transcription factor downregulates Xbp-1; downregulation has been shown to correlate with tumor progression in prostate cancer. The Poly6195 antibody recognizes the C-terminal region of human and rat Xbp-1 and has been shown to be useful for Western blotting.

**Concentration:** 0.5 mg/ml

**Gene ID:** 7494

**Structure:** Member of the CREB/ATF transcription factor family, mammalian homologue of the yeast transcription factor Hac1. Predicted molecular weight approximately 30 kD and 54 kD (splicing variant).

**Distribution:** Ubiquitously expressed

**Host:** Rabbit

**Immunogen:** Peptide

**Isotype:** IgG

**Clone:** Poly6195

**Function:** Transcription factor regulating MHC class II genes by binding to X-box promoter motif. Can also bind to enhancer in T cell leukemia virus type I promoter and enhance viral protein expression by acting as DNA binding partner of a viral transactivator.

**Formulation:** This antibody is provided in phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 50% glycerol. **Precaution:** Sodium azide is a poisonous and hazardous substance which should be handled by trained staff only.

**Purification:** The antibody was purified by antigen-affinity chromatography.



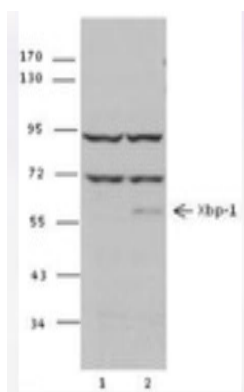
**Reactivity:** Human, Rat, and weak reactive with Mouse; recognizes the 54 kD form

**Applications:** WB, ChIP, IHC

**Recommended Usage:** Each lot of this antibody is quality control tested by Western blotting. Western blotting, suggested working dilution(s): Use 10  $\mu$ l per 5 ml antibody dilution buffer for each mini-gel. It is recommended that the reagent be titrated for optimal performance for each application.

**Storage & Stability:** Upon receipt, store frozen at -20° C.

Extracts of untreated HepG2 cells (lane 1) and extracts of HepG2 cells treated with 300 nM of thapsigargin for 16 hours (lane 2) were resolved by electrophoresis, transferred to nitrocellulose, and probed with purified polyclonal anti-Xbp-1 antibody (clone Poly6195). The proteins were visualized using a donkey anti-rabbit-IgG secondary conjugated to HRP and chemiluminescence detection.



**NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.**