

## Product datasheet for **TA328003**

### **XBP1 Mouse Monoclonal Antibody [Clone ID: 143F]**

#### **Product data:**

Product Type:	Primary Antibodies
Clone Name:	143F
Applications:	WB
Recommended Dilution:	WB, IHC
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	XBP-1s recombination protein
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Concentration:	lot specific
Purification:	The antibody was purified by affinity chromatography.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	X-box binding protein 1
Database Link:	<a href="#">NP_005071</a> <a href="#">Entrez Gene 7494 Human P17861</a>

**Background:** XBP-1 is a transcription factor containing a bZIP domain. It was first identified because of its binding ability to X-box, a conserved transcriptional element in the promoter of human HLA DR gene. XBP-1 has multiple functions. It controls MHC class II gene regulation and is also essential for differentiation of plasma cells. XBP-1 upregulates as part of the ER stress response, also known as the unfolded protein response. Unspliced XBP-1 is 261 amino acids and migrates on the SDS-PAGE around 33 kD; spliced XBP-1, recognized by clone 143F, is 371 amino acids and migrates around 55 kD.

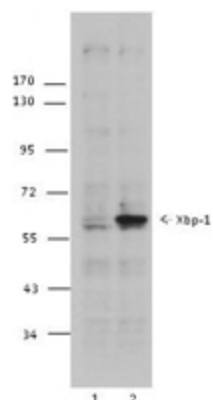
**Synonyms:** TREB-5; TREB5; XBP-1; XBP2



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Protein Families: Transcription Factors

### Product images:



Extracts of untreated HepG2 cells (lane 1) and extracts of HepG2 cells treated with 300 nM thapsigargin (TG) for 16 hours (lane 2) were resolved by electrophoresis, transferred to nitrocellulose, and probed with purified monoclonal anti-Xbp-1s antibody (clone 143F). Proteins were visualized using a goat anti-mouse-IgG secondary conjugated to HRP and chemiluminescence detection.