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XBP-1s Rabbit mAb

Catalog No.: A28350 Recombinant

Basic Information

Observed MW
56 kDa

Calculated MW
40 kDa

Category
Primary antibody

Applications
WB,ChIP,ELISA

Cross-Reactivity
Human, Mouse

CloneNo number
ARC78803

Background

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. The isoform encoded by the unspliced mRNA, XBP1(U), is constitutively expressed, and thought to function as a negative feedback regulator of XBP1(S), which shuts off transcription of target genes during the recovery phase of ER stress. A pseudogene of XBP1 has been identified and localized to chromosome 5.

Recommended Dilutions

WB	1:2000 - 1:5000
ChIP	1-3μg antibody for 10μg-15μg of Chromatin
ELISA	Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements For high-ratio antibody dilutions (≥1:10000)□a sequential dilution method is strongly recommended to ensure measurement accuracy.

Immunogen Information

Gene ID
7494

Swiss Prot
P17861-2

Immunogen
Recombinant protein (or fragment).This information is considered to be commercially sensitive.

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

Product Information

Source
Rabbit

Isotype
IgG

Purification
Affinity purification

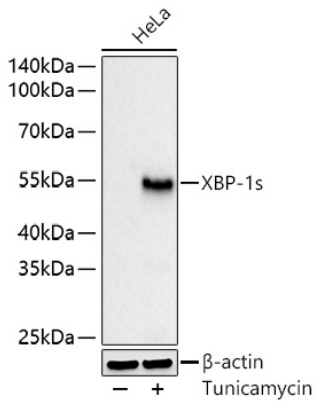
Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.09% Sodium azide,0.05% BSA,50% glycerol,pH7.3.

Contact

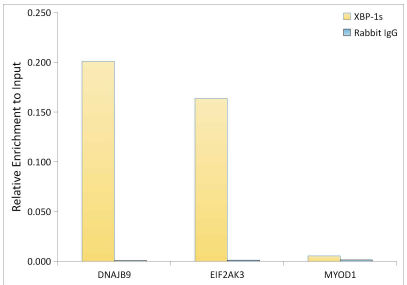
400-999-6126

cn.market@abclonal.com.cn

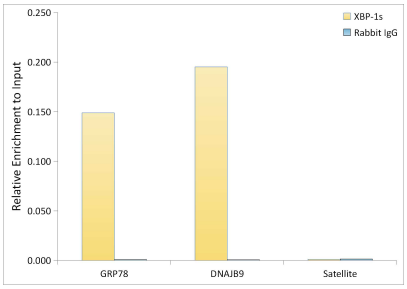
Validation Data



Western blot analysis of lysates from HeLa cells using XBP-1s Rabbit mAb (A28350) at 1:5000 dilution incubated overnight at 4℃. HeLa cells were treated with Tunicamycin (20 μg/mL) for 4 hours.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 30 μg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 45 s.



Chromatin immunoprecipitation was performed with 15 μg of cross-linked chromatin from C2C12 cells treated with tunicamycin(2 μg/ml,8h), using 1 μg of XBP-1s Rabbit mAb (A28350) and Rabbit IgG isotype control (AC042). The enrichment of immunoprecipitated DNA at different genomic loci was examined by quantitative PCR. The histogram compares the ratio of the immunoprecipitated DNA to the input at given loci.



Chromatin immunoprecipitation was performed with 15 μg of cross-linked chromatin from HeLa cells treated with tunicamycin (2 μg/ml,7h), using 3 μg of XBP-1s Rabbit mAb (A28350) and Rabbit IgG isotype control (AC042). The enrichment of immunoprecipitated DNA at different genomic loci was examined by quantitative PCR. The histogram compares the ratio of the immunoprecipitated DNA to the input at given loci.