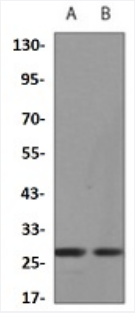
RecomAb™ Sm Size

XBP1 recombinant monoclonal antibody

Catalog # RAB09288 Size 50 uL

Applications



Western Blot (Cell lysate)

Western blot analysis of Raw264.7 (A), HL60 (B), U2OS (C) whole cell lysates with XBP1 recombinant monoclonal antibody (Cat # RAB09288).

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human XBP1.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against recombinant protein of human XBP1.
Theoretical MW (kDa)	28
Reactivity	Human, Mouse
Specificity	Recognizes endogenous levels of XBP1 protein.
Form	Liquid
Preparation Method	Mammalian cell (HEK293) expression system
Purification	Immunogen affinity chromatography
Isotype	IgG
Recommend Usage	Immunoprecipitation (1:10-1:50) Western Blot (1:500-1:1000)

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Storage Buffer	In 50mM Tris-Glycine, pH 7.4 (0.15M NaCl, 50% Glycerol, 0.01% Sodium azide and 0.05% BSA)
Storage Instruction	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze-thaw cycles.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

  Western blot analysis of Raw264.7 (A), HL60 (B), U2OS (C) whole cell lysates with XBP1 recombinant monoclonal antibody (Cat # RAB09288).

Gene Info — XBP1

Entrez GeneID	7494
Protein Accession#	P17861
Gene Name	XBP1
Gene Alias	TREB5, XBP2
Gene Description	X-box binding protein 1
Omim ID	125480 194355
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a transcription factor that regulates MHC class II genes by binding to a promot er 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 vir us type 1 promoter. It may increase expression of viral proteins by acting as the DNA binding part ner of a viral transactivator. It has been found that upon accumulation of unfolded proteins in the en doplasmic reticulum (ER), the mRNA of this gene is processed to an active form by an unconventi onal 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. [provided by RefSeq
Other Designations	OTTHUMP00000028682|X-box-binding protein-1

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Disease

- Amphetamine-Related Disorders
- Arousal
- Atherosclerosis
- Bipolar Disorder
- Depressive Disorder
- Genetic Predisposition to Disease
- Hyperhomocysteinemia
- IgA Deficiency
- Ischemia
- Kidney Failure
- Lung Neoplasms
- Obesity
- Personality Assessment
- Psychiatric Status Rating Scales
- Pulmonary Disease
- Schizophrenia
- Stress
- Stroke
- Urinary Bladder Neoplasms
- Vitiligo
- Werner syndrome

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