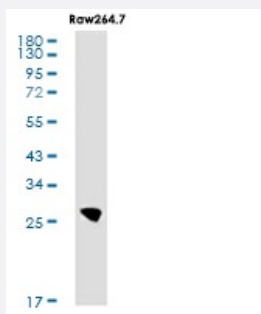


RecomAb™

# XBP1 recombinant monoclonal antibody, clone R04-3E2

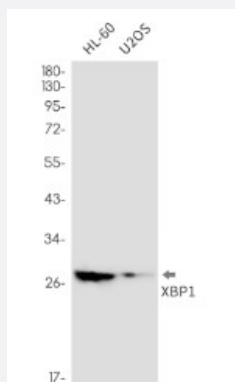
Catalog # RAB01330      Size 100 uL

## Applications



### Western Blot

Western blot analysis of XBP1 in Raw264.7 lysates using XBP1 antibody.



### Western Blot

Western Blot analysis of HL-60, U2OS lysates with XBP1 recombinant monoclonal antibody, clone R04-3E2 (Cat # RAB01330).

## Specification

|                             |                                                                                      |
|-----------------------------|--------------------------------------------------------------------------------------|
| <b>Product Description</b>  | Rabbit recombinant monoclonal antibody raised against human XBP1.                    |
| <b>Antibody Species</b>     | Rabbit                                                                               |
| <b>Immunogen</b>            | Original antibody is raised against recombinant protein corresponding to human XBP1. |
| <b>Theoretical MW (kDa)</b> | Calculated MW: 29 kD                                                                 |
| <b>Reactivity</b>           | Human                                                                                |

|                     |                                                                                                                        |
|---------------------|------------------------------------------------------------------------------------------------------------------------|
| Form                | Liquid                                                                                                                 |
| Purification        | Affinity purification                                                                                                  |
| Isotype             | IgG                                                                                                                    |
| Recommend Usage     | Immunoprecipitation<br>Western Blot<br>The optimal working dilution should be determined by the end user.              |
| Storage Buffer      | In 50mM Tris-Glycine, pH 7.4, (0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA)                             |
| Storage Instruction | Store at 4°C. For longer storage, aliquot and store at -20°C.<br>Aliquot to avoid repeated freezing and thawing.       |
| Note                | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |

## Applications

- Western Blot

Western blot analysis of XBP1 in Raw264.7 lysates using XBP1 antibody.

- Western Blot

Western Blot analysis of HL-60, U2OS lysates with XBP1 recombinant monoclonal antibody, clone R04-3E2 (Cat # RAB01330).

- Immunoprecipitation

## Gene Info — XBP1

|                    |                                               |
|--------------------|-----------------------------------------------|
| Entrez GeneID      | <a href="#">7494</a>                          |
| Protein Accession# | <a href="#">P17861</a>                        |
| Gene Name          | XBP1                                          |
| Gene Alias         | TREB5, XBP2                                   |
| Gene Description   | X-box binding protein 1                       |
| Omim ID            | <a href="#">125480</a> <a href="#">194355</a> |
| Gene Ontology      | <a href="#">Hyperlink</a>                     |

**Gene Summary**

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. [provided by RefSeq]

**Other Designations**

OTTHUMP00000028682|X-box-binding protein-1

**Disease**

- [Amphetamine-Related Disorders](#)
- [Arousal](#)
- [Atherosclerosis](#)
- [Bipolar Disorder](#)
- [Depressive Disorder](#)
- [Genetic Predisposition to Disease](#)
- [Hyperhomocysteinemia](#)
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- [Stress](#)
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- [Urinary Bladder Neoplasms](#)
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- [Werner syndrome](#)