XBP1 Rabbit mAb

Catalog No: #49436

Package Size: #49436-1 50ul #49436-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

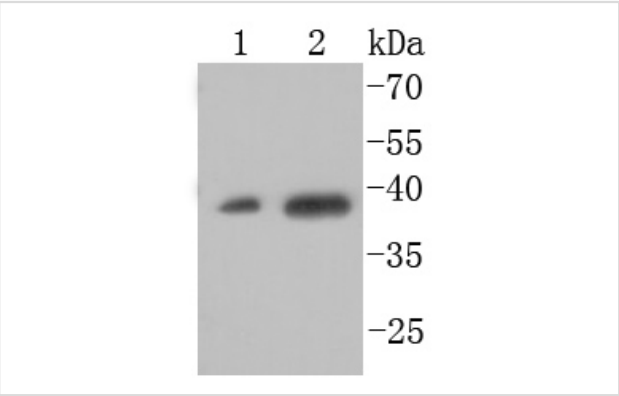
Description

Product Name	XBP1 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	JM10-62
Purification	ProA affinity purified
Applications	WB,IHC,ICC/IF, FC
Species Reactivity	Human
Immunogen Description	recombinant protein
Conjugates	Unconjugated
Other Names	Tax responsive element binding protein 5 antibody Tax-responsive element-binding protein 5 antibody TREB5 antibody X box binding protein 1 antibody X box binding protein 2 antibody X-box-binding protein 1 antibody XBP 1 antibody XBP-1 antibody XBP1 antibody XBP1_HUMAN antibody XBP2 antibody
Accession No.	Swiss-Prot#:P17861
Calculated MW	40 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

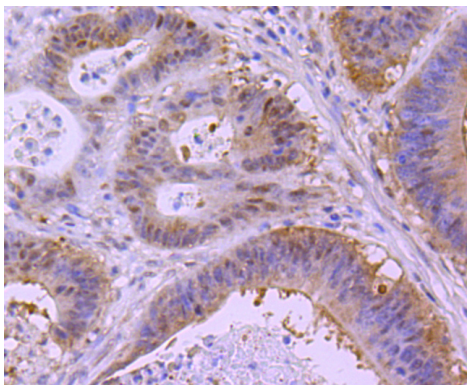
Application Details

WB: 1:500-1:1,000 IHC: 1:50-1:200 ICC: 1:100-1:500FC: 1:50-1:100

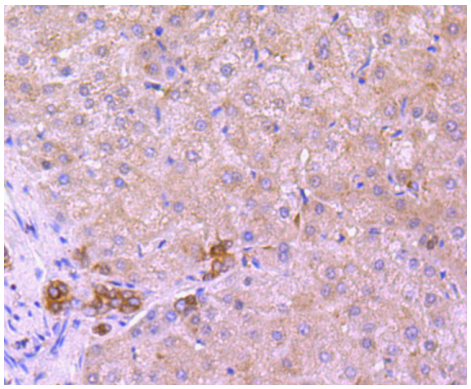
Images



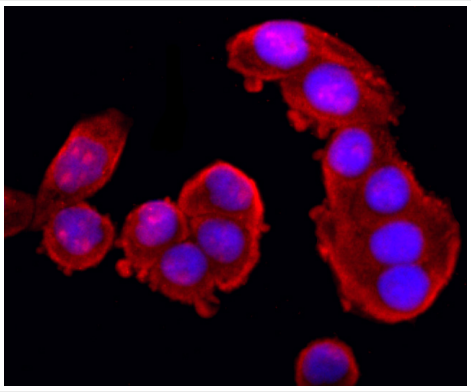
Western blot analysis of XBP1 on different cell lysates using anti-XBP1 antibody at 1/1,000 dilution. Positive control:
Lane 1:HepG2 Lane 2: 293T



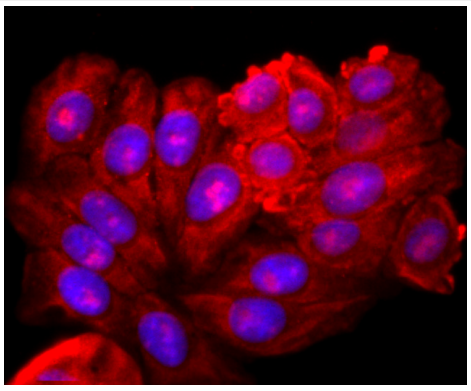
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue using anti-XBP1 antibody. Counter stained with hematoxylin.



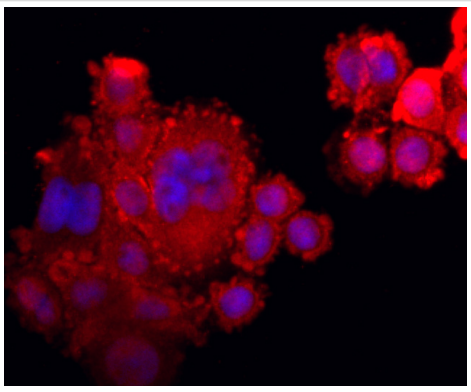
Immunohistochemical analysis of paraffin-embedded human liver tissue using anti-XBP1 antibody. Counter stained with hematoxylin.



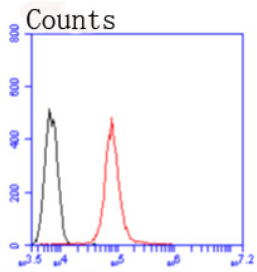
ICC staining XBP1 in Hela cells (red). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining XBP1 in HepG2 cells (red). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining XBP1 in SW480 cells (red). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



Flow cytometric analysis of 293T cells with XBP1 antibody at 1/50 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody.

Background

The X-box binding protein-1 (XBP-1 or hXBP-1), also designated tax-responsive element-binding protein 5 (TREB5) in mouse and human, or hepatocarcinogenesis-related transcription factor (HTF) in rat, belongs to the basic region/leucine zipper (bZIP) family of transcription factors. XBP-1 was first characterized as a protein that binds to the HLA-DRα promoter in B cells. XBP-1 recognizes the cAMP responsive element (CRE) in enhancers of human T cell leukemia virus and major histocompatibility complex class II genes and activates transcription of these genes. It is expressed at high levels in developing bone and its levels are modulated during osteoblast development, suggesting a role in regulation of expression of osteoblast-specific genes. In addition to binding to CRE sequences, XBP-1 has been shown to bind to TPA response elements (TREs).

References

1. Krawczyk KK et al. Assessing the contribution of thrombospondin-4 induction and ATF6a activation to endoplasmic reticulum expansion and phenotypic modulation in bladder outlet obstruction. Sci Rep 6:32449 (2016).
2. Prell T et al. The unfolded protein response in models of human mutant G93A amyotrophic lateral sclerosis. Eur J Neurosci 35:652-60 (2012).

Published Papers

el at., X-box binding protein 1 (XBP1): a potential role in chemotherapy response, clinical pathologic features, non-inflamed tumour microenvironment for breast cancer. In Biosci Rep on 2022 Jun 30 by Zhipeng Zhu, Hongliang Zhan, et al..PMID:35543228, , (2022)

PMID:35543228

Note: This product is for in vitro research use only and is not intended for use in humans or animals.