Nur für Forschungszwecke

XBP1S/XBP1U Polyklonaler Antikörper

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Antibodies | ELISA kits | Proteins
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Katalog-Nr.:24168-1-AP Vorgestelltes Produkt 7 Publikationen

Allgemeine Informationen

Katalog-Nr.:
24168-1-AP

Größe:
150ul , Konzentration: 700 μg/ml von Nanodrop;

Wirt:
Kaninchen

Isotyp:
IgG

Immunogen Katalognummer:
AG21454

GenBank-Zugangsnummer:
BC000938

GeneID (NCBI):
7494

Vollständiger Name:
X-box binding protein 1

Berechneté Masse:
261 aa, 29 kDa

Beobachteté Masse:
~32 kDa; ~60 kDa

Reinigungsmethode:
Antigen-affinitätsgereinigt

Empfohlene Verdünnungen:
WB 1:1000-1:5000
IHC 1:50-1:500

Anwendungen

Geprüfte Anwendungen:
IHC, WB, ELISA

In Publikationen genannte Anwendungen:
WB

Getestete Reaktivität:
Human, Maus

Zitierte Arten:
Human, Maus

Hinweis-IHC: Antigendemaskierung mit TE-Puffer pH 9,0 empfohlen. (*) Wahlweise kann die Antigendemaskierung auch mit Citratpuffer pH 6,0 erfolgen.

Positivkontrollen:

WB : HepG2-Zellen, HEK-293-Zellen, Jurkat-Zellen, Raji-Zellen

IHC : humanes Mammakarzinomgewebe, humanes Kolonkarzinomgewebe, humanes Leberkarzinomgewebe, Mauslebergewebe

Hintergrundinformationen

XBP1 is also named as XBP2, belongs to the bZIP family. The X-box-binding protein-1 (XBP1) is a transcriptional regulator of the ER stress response that lies downstream of inositol-requiring enzyme 1 (IRE1α) activation (PMID: 14559994). IRE1α possesses both kinase and ribonuclease activity and processes XBP1 mRNA to produce an active transcription factor in response to ER stress (PMID: 11779464, 11780124). It has been found that upon accumulation of unfolded proteins in the endoplasmic reticulum, 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. The resulting loss of 26 nt from the spliced mRNA causes a frame-shift and an isoform XBP1S, which is the functionally active transcription factor. The isoform encoded by the unspliced mRNA, XBP1U, is constitutively expressed, and thought to function as a negative feedback regulator of XBP1S, which shuts off transcription of target genes during the recovery phase of ER stress (PMID: 11850408). The unspliced XBP1U isoform is composed of 261 amino acid residues, and the spliced XBP1S isoform is composed of 376 amino acid residues. The XBP1 antibody (24168-1-AP) can detect both XBP1U and XBP1S.

Bemerkenswerte Veröffentlichungen

Verfasser	Pubmed ID	Journal	Anwendung
Yanxia Huang	32967957	J Virol	WB
Xue YANG	34514754	J Zhejiang Univ Sci B	WB
Weiwei Sheng	33028359	J Exp Clin Cancer Res	WB

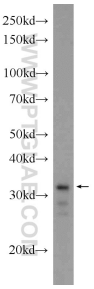
Lagerung

Lagerungsbedingungen:
Bei -20°C lagern. Nach dem Versand ein Jahr lang stabil
Lagerungspuffer:
PBS mit 0.02% Natriumazid und 50% Glycerin pH 7.3.
Aliquotieren ist nicht notwendig bei -20°C lagerung

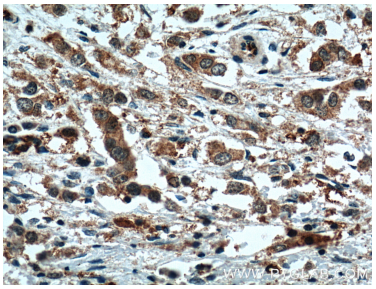
*** 20ul-Größen enthalten 0.1% BSA

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

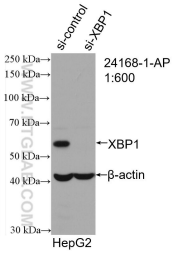
Ausgewählte Validierungsdaten



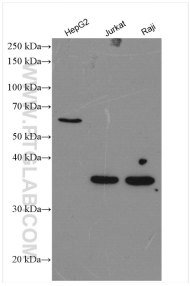
HEK-293 cells were subjected to SDS PAGE followed by western blot with 24168-1-AP (XBP1 Antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.



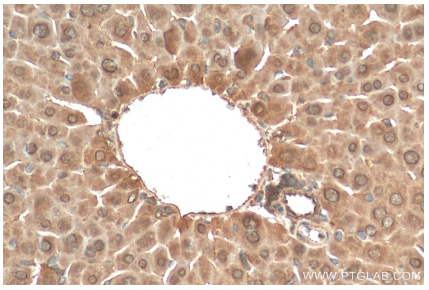
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 24168-1-AP (XBP1 Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



WB result of XBP1S/XBP1U antibody (24168-1-AP; 1:600; incubated at room temperature for 1.5 hours) with sh-Control and sh-XBP1S/XBP1U transfected HepG2 cells.



Various lysates were subjected to SDS PAGE followed by western blot with 24168-1-AP (XBP1S/XBP1U antibody) at dilution of 1:2500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse liver tissue slide using 24168-1-AP (XBP1S/XBP1U antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).