Datasheet for ABIN1386103

anti-FBXW7 antibody (AA 501-600)

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Overview

Quantity:	100 µL
Target:	FBXW7
Binding Specificity:	AA 501-600
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This FBXW7 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (Cultured Cells) (IF (cc)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human Fbxw7/hCDC4
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Predicted Reactivity:	Dog,Cow,Pig,Horse
Purification:	Purified by Protein A.

Target Details

Target:	FBXW7

Target Details

Alternative Name:	Fbxw7 (FBXW7 Products)
Background:	Synonyms: AGO, CDC4, FBW6, FBW7, hAgo, FBX30, FBXW6, SEL10, hCdc4, FBXO30, SEL-10, F-box/WD repeat-containing protein 7, Archipelago homolog, F-box and WD-40 domain-containing protein 7, F-box protein FBX30, FBXW7 Background: Substrate recognition component of an SCF (SKP1-CUL1-F-box protein) E3 ubiquitin-protein ligase complex which mediates the ubiquitination and subsequent proteasomal degradation of target proteins. Recognizes and binds phosphorylated sites/phosphodegrons within target proteins and thereafter bring them to the SCF complex for ubiquitination (PubMed:17434132). Identified substrates include cyclin-E (CCNE1 or CCNE2), JUN, MYC, NOTCH1 released notch intracellular domain (NICD), and probably PSEN1 (PubMed:11565034, PubMed:12354302, PubMed:11585921, PubMed:15103331, PubMed:14739463, PubMed:17558397, PubMed:17873522, PubMed:22608923). Acts as a negative regulator of JNK signaling by binding to phosphorylated JUN and promoting its ubiquitination and subsequent degradation (PubMed:14739463).
Gene ID:	55294
UniProt:	Q969H0
Pathways:	Notch Signaling, EGFR Signaling Pathway

Application Details

Application Notes:	WB 1:300-5000
	ELISA 1:500-1000
	IHC-P 1:200-400
	IHC-F 1:100-500
	IF(IHC-P) 1:50-200
	IF(IHC-F) 1:50-200
	IF(ICC) 1:50-200

Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 μg/μL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.

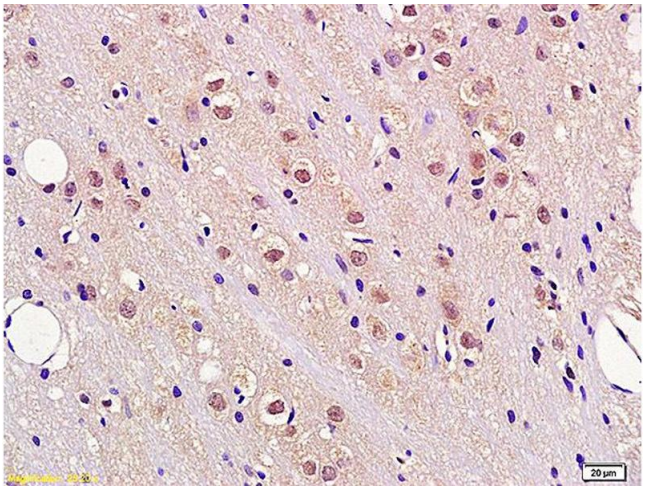
Handling

Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

Publications

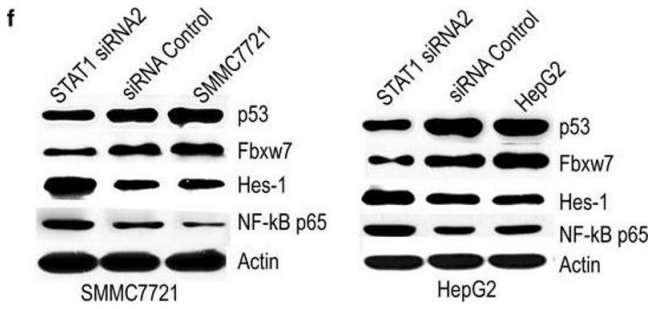
Product cited in:	Wang, Yang, Liu, Huang, Wang, Chen, Chen: "RBP-J-interacting and tubulin-associated protein induces apoptosis and cell cycle arrest in human hepatocellular carcinoma by activating the p53-Fbxw7 pathway." in: **Biochemical and biophysical research communications**, Vol. 454, Issue 1, pp. 71-7, (2015) (PubMed). Chen, Wang, Wang, Huang, Zhang: "STAT1 inhibits human hepatocellular carcinoma cell growth through induction of p53 and Fbxw7." in: **Cancer cell international**, Vol. 15, pp. 111, (2015) (PubMed).

Images



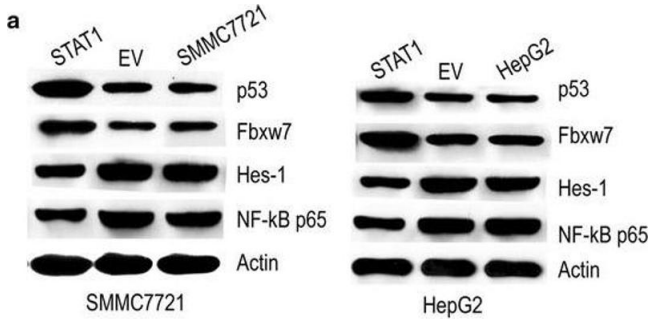
Immunohistochemistry

Image 1. Formalin-fixed and paraffin embedded rat brain tissue labeled with Anti FBXW7/CDC4 Polyclonal Antibody, Unconjugated (ABIN1386103) at 1:200 followed by conjugation to the secondary antibody and DAB staining.



Western Blotting

Image 2. Effect of STAT1 on p53, Fbxw7, Hes-1 and NF-κB p65. a, b, c, d, e Western blot was used to analyze p53, Fbxw7, Hes-1 and NF-κB p65 protein. Actin served as internal control. p53 and Fbxw7 were significantly increased, Hes-1 and NF-κB p65 were significantly decreased in STAT1-transfected SMMC7721 and HepG2 cells compared to SMMC7721, HepG2 and EV cells ($P < 0.05$), f, g, h, i, j showed p53, Fbxw7, Hes-1 and NF-κB p65 protein expression in STAT1 siRNA2, control siRNA, SMMC7721 and HepG2 cells. The protein of p53 and Fbxw7 were significantly decreased, Hes-1and NF-κB p65 were significantly increased in STAT1 siRNA2 cells compared to control siRNA, SMMC7721 and HepG2 cells ($P < 0.05$) - figure provided by CiteAb. Source: PMID26617467



Western Blotting

Image 3. Effect of STAT1 on p53, Fbxw7, Hes-1 and NF-κB p65. a, b, c, d, e Western blot was used to analyze p53, Fbxw7, Hes-1 and NF-κB p65 protein. Actin served as internal control. p53 and Fbxw7 were significantly increased, Hes-1 and NF-κB p65 were significantly decreased in STAT1-transfected SMMC7721 and HepG2 cells compared to SMMC7721, HepG2 and EV cells ($P < 0.05$), f, g, h, i, j showed p53, Fbxw7, Hes-1 and NF-κB p65 protein expression in STAT1 siRNA2, control siRNA, SMMC7721 and HepG2 cells. The protein of p53 and Fbxw7 were significantly decreased, Hes-1and NF-κB p65 were significantly increased in STAT1 siRNA2 cells compared to control siRNA, SMMC7721 and HepG2 cells ($P < 0.05$) - figure provided by CiteAb. Source: PMID26617467