Datasheet for ABIN7160228

anti-SMAD2 antibody (AA 2-467)

6 Images

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Overview

Quantity:	100 µg
Target:	SMAD2
Binding Specificity:	AA 2-467
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SMAD2 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF)

Product Details

Immunogen:	Recombinant Human Mothers against decapentaplegic homolog 2 protein (2-467AA)
Isotype:	IgG
Cross-Reactivity:	Human, Mouse
Purification:	>95%, Protein G purified

Target Details

Target:	SMAD2
Alternative Name:	SMAD2 (SMAD2 Products)
Background:	Background: Receptor-regulated SMAD (R-SMAD) that is an intracellular signal transducer and transcriptional modulator activated by TGF-beta (transforming growth factor) and activin type 1

Target Details

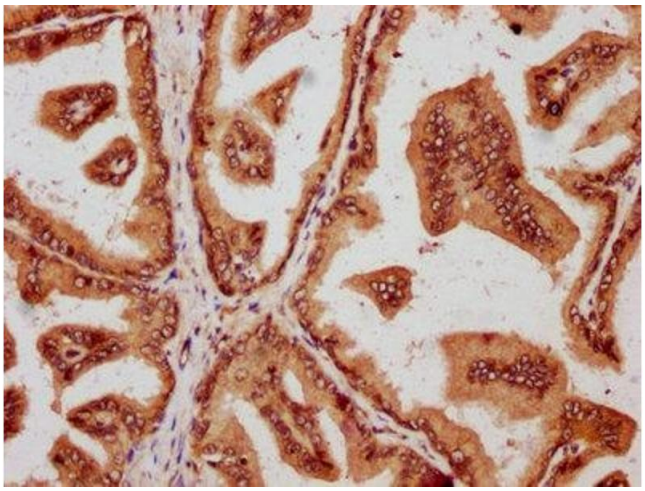
	receptor kinases. Binds the TRE element in the promoter region of many genes that are regulated by TGF-beta and, on formation of the SMAD2/SMAD4 complex, activates transcription. May act as a tumor suppressor in colorectal carcinoma. Positively regulates PDPK1 kinase activity by stimulating its dissociation from the 14-3-3 protein YWHAQ which acts as a negative regulator. Aliases: Drosophila, homolog of, MADR2 antibody, hMAD-2 antibody, HsMAD2 antibody, JV18 antibody, JV18-1 antibody, JV181 antibody, MAD antibody, MAD homolog 2 antibody, MAD Related Protein 2 antibody, Mad-related protein 2 antibody, MADH2 antibody, MADR2 antibody, MGC22139 antibody, MGC34440 antibody, Mother against DPP homolog 2 antibody, Mothers against decapentaplegic homolog 2 antibody, Mothers against decapentaplegic, Drosophila, homolog of, 2 antibody, Mothers against DPP homolog 2 antibody, OTTHUMP00000163489 antibody, Sma and Mad related protein 2 antibody, Sma- and Mad-related protein 2 MAD antibody, SMAD 2 antibody, SMAD family member 2 antibody, SMAD, mothers against DPP homolog 2 antibody, SMAD2 antibody, SMAD2_HUMAN antibody
UniProt:	Q15796
Pathways:	Cell Division Cycle, Hormone Transport, Chromatin Binding, Protein targeting to Nucleus

Application Details

Application Notes:	Recommended dilution: WB:1:500-1:5000, IHC:1:100-1:1000, IF:1:50-1:500,
Restrictions:	For Research Use only

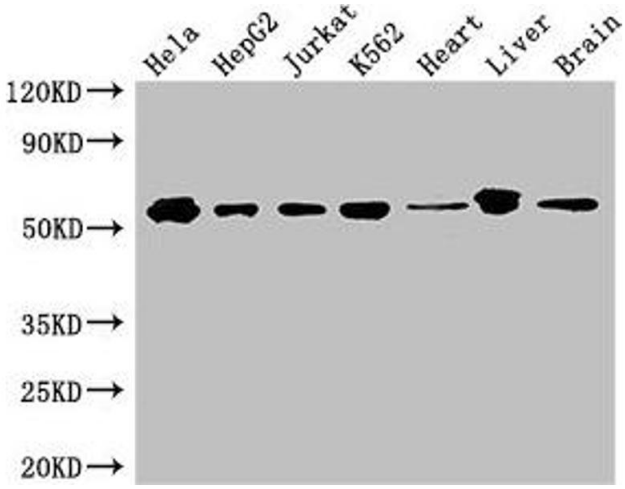
Handling

Format:	Liquid
Buffer:	Preservative: 0.03 % Proclin 300 Constituents: 50 % Glycerol, 0.01M PBS, PH 7.4
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.



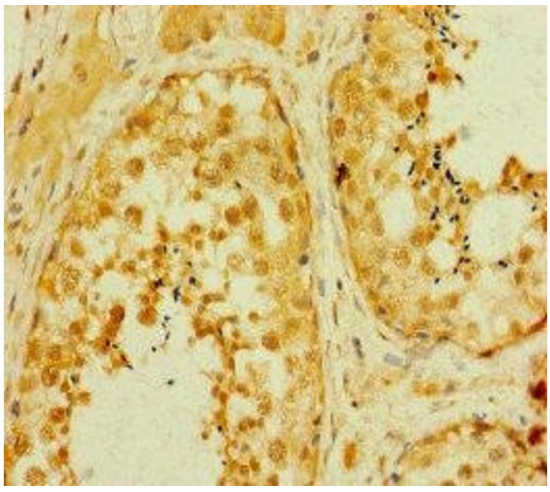
Immunohistochemistry

Image 1. IHC image of ABIN7160228 diluted at 1:600 and staining in paraffin-embedded human prostate tissue performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10 % normal goat serum 30 min at RT. Then primary antibody (1 % BSA) was incubated at 4 °C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.



Western Blotting

Image 2. Western Blot Positive WB detected in: Hela whole cell lysate, HepG2 whole cell lysate, Jurkat whole cell lysate, K562 whole cell lysate, Mouse heart tissue, Mouse liver tissue, Mouse brain tissue All lanes: SMAD2 antibody at 3 µg/mL Secondary Goat polyclonal to rabbit IgG at 1/50000 dilution Predicted band size: 53, 49 kDa Observed band size: 53 kDa



Immunohistochemistry

Image 3. Immunohistochemistry of paraffin-embedded human testis tissue using ABIN7160228 at dilution of 1:100

Please check the product details page for more images. Overall 6 images are available for ABIN7160228.