

Datasheet for ABIN7180083
anti-SMAD2 antibody (Thr220)



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2 Images

Overview

Quantity:	100 µL
Target:	SMAD2
Binding Specificity:	Thr220
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SMAD2 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC)

Product Details

Immunogen:	Synthesized non-phosphopeptide derived from Human Smad2 around the phosphorylation site of threonine 220 (P-E-T(p)-P-P).
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Purification:	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

Target Details

Target:	SMAD2
Alternative Name:	SMAD2 (SMAD2 Products)

Target Details

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 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. Riggins G.J., Nat. Genet. 13:347-349(1996). Zhang Y., Nature 383:168-172(1996). Eppert K., Cell 86:543-552(1996). 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
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UniProt:	Q15796
Pathways:	Cell Division Cycle , Hormone Transport , Chromatin Binding , Protein targeting to Nucleus

Application Details

Application Notes:	WB:1:500-1:3000, IHC:1:50-1:100,
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Rabbit IgG in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which

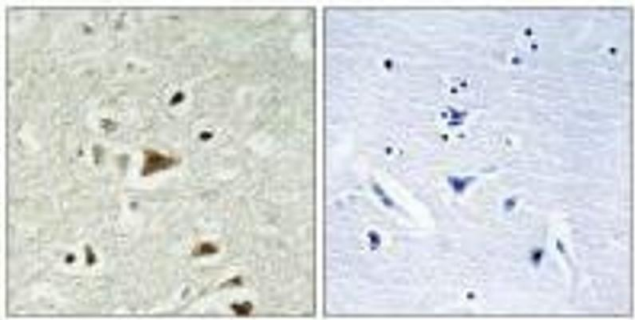
Handling

should be handled by trained staff only.

Storage: -20 °C,-80 °C

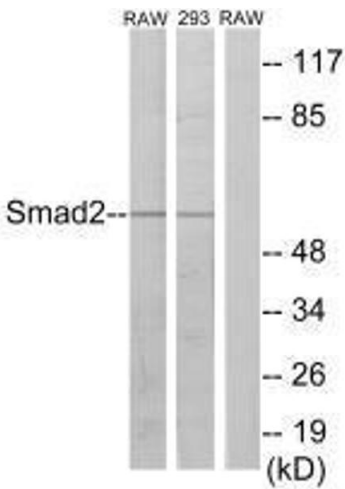
Storage Comment: Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

Images



Immunohistochemistry

Image 1. Immunohistochemistry analysis of paraffin-embedded human brain tissue using Smad2 (Ab-220) antibody.



Western Blotting

Image 2. Western blot analysis of extracts from RAW264.7 cells and 293 cells, using Smad2 (Ab-220) antibody.