Datasheet for ABIN7209647

anti-Smad2/3 antibody (pThr8)

2 Images

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Overview

Quantity:	100 µL
Target:	Smad2/3 (SMAD2/3)
Binding Specificity:	pThr8
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Smad2/3 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

Product Details

Purpose:	Smad2/3 (phospho Thr8) Polyclonal Antibody
Immunogen:	Synthesized peptide derived from human Smad2/3 Phospho-Thr8
Isotype:	IgG
Specificity:	Phospho-Smad2/3 (T8) Polyclonal Antibody detects endogenous levels of Smad2/3 protein only when phosphorylated at T8.
Purification:	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen

Target Details

Target:	Smad2/3 (SMAD2/3)

Target Details

Alternative Name:	Smad2/3 (SMAD2/3 Products)
Background:	Rabbit Anti-Smad2/3 (phospho Thr8) Polyclonal Antibody,SMAD2, MADH2, MADR2, Mothers against decapentaplegic homolog 2, MAD homolog 2, Mothers against DPP homolog 2, JV18-1, Mad-related protein 2, hMAD-2, SMAD family member 2, SMAD 2, Smad2, hSMAD2, SMAD3, MADH3, Mothers against decapentaplegic,SMAD family member 2 encoded by SMAD2 belongs to the SMAD, a family of proteins similar to the gene products of the Drosophila gene 'mothers against decapentaplegic' (Mad) and the C. elegans gene Sma. SMAD proteins are signal transducers and transcriptional modulators that mediate multiple signaling pathways. This protein mediates the signal of the transforming growth factor (TGF)-beta, and thus regulates multiple cellular processes, such as cell proliferation, apoptosis, and differentiation. This protein is recruited to the TGF-beta receptors through its interaction with the SMAD anchor for receptor activation (SARA) protein. In response to TGF-beta signal, this protein is phosphorylated by the TGF-beta receptors. The phosphorylation induces the dissociation of this protein with SARA and the association with the family member SMAD4. The association with SMAD4 is important for the translocation of this protein into the nucleus, where it binds to target promoters and forms a transcription repressor complex with other cofactors. This protein can also be phosphorylated by activin type 1 receptor kinase, and mediates the signal from the activin. Alternatively spliced transcript variants have been observed for SMAD2.,Mothers against decapentaplegic homolog 2
Gene ID:	4087, 4088

Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator. Suggested starting dilutions are as follows: WB (1:500-1:2000), ELISA (1:10000). Not yet tested in other applications.
Restrictions:	For Research Use only

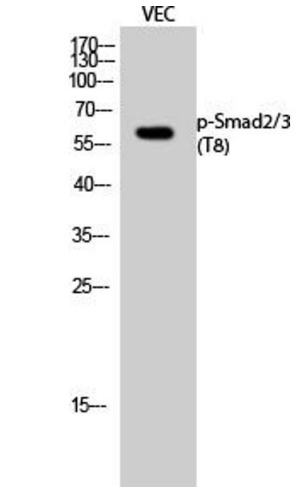
Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	PBS containing 50 % Glycerol, 0.5 % BSA and 0.02 % Sodium Azide.
Preservative:	Sodium azide

Handling

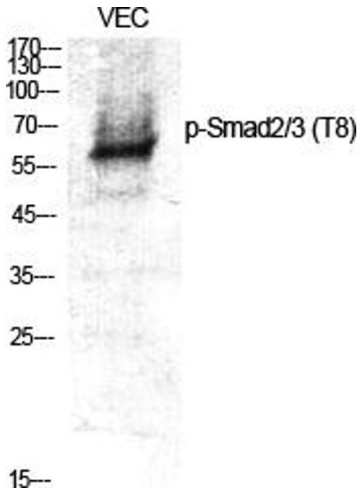
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Stable for one year at -20°C from date of shipment. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. Aliquot to avoid repeated freezing and thawing.

Images



Western Blotting

Image 1. Western Blot analysis of VEC cells using Phospho-Smad2/3 (T8) Polyclonal Antibody.



Western Blotting

Image 2. Western Blot analysis of various cells using Phospho-Smad2/3 (T8) Polyclonal Antibody.