BT LAB
Bioassay Technology Laboratory
Optimize Your Research

Smad2/3(Phospho Thr8) Polyclonal Antibody

Description

Product type	Primary Antibody
Code	BT-AP07998
Host	Rabbit
Isotype	IgG
Size	20ul, 50ul, 100ul
Immunogen	The antiserum was produced against synthesized peptide derived from human Smad2/3 around the phosphorylation site of Thr8. AA range:1-50
Mol wt	48081
Species reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Recommended application	WB, ELISA
Concentration	1 mg/ml
Full name	Mothers against decapentaplegic homolog 2/3
Synonyms	Mothers against decapentaplegic homolog 2/3; 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

This product is for research use only, not for use in human, therapeutic or diagnostic procedure.

Background

The protein encoded by this gene 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

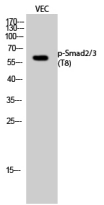
Recommended Dilution

WB: 1: 500 - 1: 2000

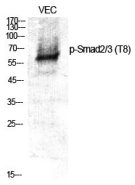
ELISA: 1: 10000

Not yet tested in other applications.

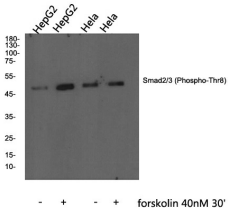
Images



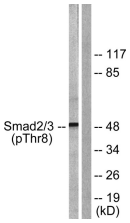
Western blot analysis of Smad2/3 (phospho Thr8) Polyclonal Antibody, using Hela, HepG2 cell treated or untreated with forskolin 40nM 30', 4°C overnight, secondary antibody was diluted at 1:10000, 37°C 1hour.



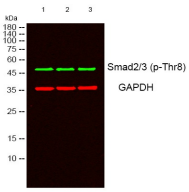
Western Blot analysis of various cells using Phospho-Smad2/3 (T8) Polyclonal Antibody



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



Western blot analysis of lysates from RAW264.7 cells, using Smad2/3 (Phospho-Thr8) Antibody. The lane on the right is blocked with the phospho peptide.



Western blot analysis of lysates from 1) VEC, 2) HeLa, 3) HepG2 cells, (Green) primary antibody was diluted at 1:1000, 4°C overnight, secondary antibody was diluted at 1:10000, 37°C 1hour. (Red) GAPDH Monoclonal Antibody(2B8) was diluted at 1:5000 as loading control, 4°C overnight,secondary antibody was diluted at 1:10000, 37°C 1hour.

Storage

-20°C for 1 year

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