

Datasheet for ABIN3032604
anti-SMAD4 antibody (AA 255-284)



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3 Images

Overview

Quantity:	0.4 mL
Target:	SMAD4
Binding Specificity:	AA 255-284
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SMAD4 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (IF)

Product Details

Immunogen:	A portion of amino acids 255-284 from the human protein was used as the immunogen for this SMAD4 antibody.
Isotype:	Ig Fraction
Cross-Reactivity (Details):	Expected species reactivity: Mouse, Rat
Purification:	Antigen affinity purified

Target Details

Target:	SMAD4
Alternative Name:	SMAD4 (SMAD4 Products)
Background:	SMAD4 is the common SMAD (co-SMAD)mediator of signal transduction by TGF-beta

Target Details

(transforming growth factor). It promotes binding of the SMAD2/SMAD4/FAST-1 complex to DNA and provides an activation function required for SMAD1 or SMAD2 to stimulate transcription. It may act as a tumor suppressor.

UniProt:	Q13485
Pathways:	Cell Division Cycle , Chromatin Binding , Autophagy

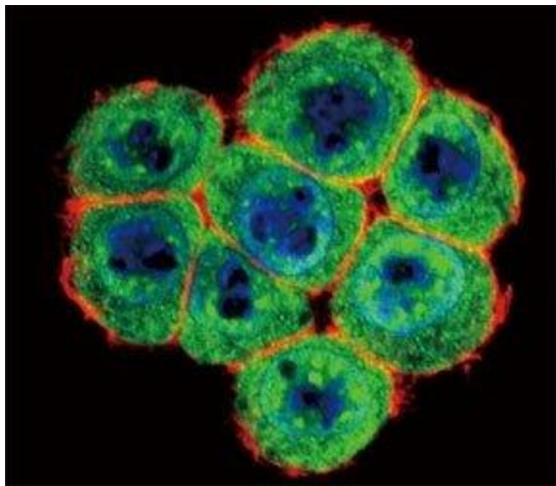
Application Details

Application Notes:	Titration of the SMAD4 antibody may be required due to differences in protocols and secondary/substrate sensitivity.\. Western blot: 1:1000,Immunofluorescence: 1:10-1:50
Restrictions:	For Research Use only

Handling

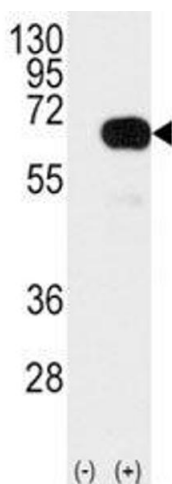
Format:	Liquid
Buffer:	In 1X PBS, pH 7.4, with 0.09 % sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Aliquot the SMAD4 antibody and store frozen at -20°C or colder. Avoid repeated freeze-thaw cycles.

Images



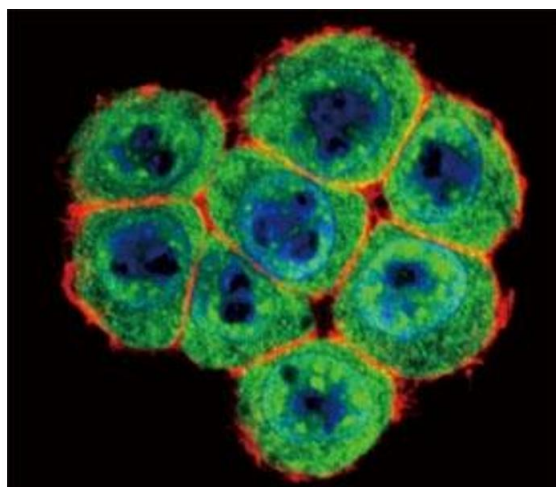
Immunofluorescence

Image 1. Confocal immunofluorescent analysis of SMAD4 antibody with HeLa cells followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). Actin filaments have been labeled with Alexa Fluor 555 Phalloidin (red). DAPI was used as a nuclear counterstain (bl



Western Blotting

Image 2. Western blot analysis of SMAD4 antibody and 293 cell lysate (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the human gene (2). Predicted molecular weight: 60-70 kDa.



Immunofluorescence

Image 3. Confocal immunofluorescent analysis of SMAD4 antibody with HeLa cells followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). Actin filaments have been labeled with Alexa Fluor 555 Phalloidin (red). DAPI was used as a nuclear counterstain (blue).