antibodies

# Datasheet for ABIN732158 anti-Smad1/5 antibody (AA 361-465)

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#### Overview

Quantity:	100 µL
Target:	Smad1/5 (SMAD1/5)
Binding Specificity:	AA 361-465
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Smad1/5 antibody is un-conjugated
Application:	Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunofluorescence (Cultured Cells) (IF (cc)), Flow Cytometry (FACS), Immunohistochemistry (Frozen Sections) (IHC (fro)), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), ELISA, Immunocytochemistry (ICC)

## Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human Smad 5
Isotype:	IgG
Cross-Reactivity:	Human
Predicted Reactivity:	Mouse,Rat,Dog,Cow,Pig,Horse,Rabbit
Purification:	Purified by Protein A.
Target Details	

Target:

Smad1/5 (SMAD1/5)

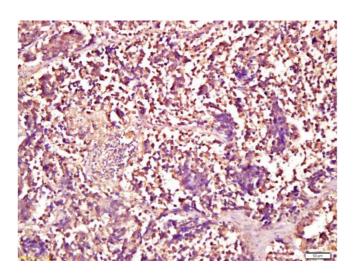
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Alternative Name:	Smad1 + Smad5 (SMAD1/5 Products)		
Background:	Synonyms: Mothers against decapentaplegic homolog 5, SMAD5, Mothers against		
	decapentaplegic homolog 1, SMAD1		
	Background: Transcriptional modulator activated by BMP (bone morphogenetic proteins) type		
	receptor kinase. SMAD5 is a receptor-regulated SMAD (R-SMAD). Transcriptional modulator		
	activated by BMP (bone morphogenetic proteins) type 1 receptor kinase. SMAD1 is a receptor-		
	regulated SMAD (R-SMAD). SMAD1/OAZ1/PSMB4 complex mediates the degradation of the		
	CREBBP/EP300 repressor SNIP1. May act synergistically with SMAD4 and YY1 in bone		
	morphogenetic protein (BMP)-mediated cardiac-specific gene expression.		
Gene ID:	4090, 4086		
Application Details			
Application Notes:	ELISA 1:500-1000		
	FCM 1:20-100		
	IHC-P 1:200-400		
	IHC-F 1:100-500		
	IF(IHC-P) 1:50-200		
	IF(IHC-F) 1:50-200		
	IF(ICC) 1:50-200		
	ICC 1:100-500		
Restrictions:	For Research Use only		
Handling			
Format:	Liquid		
Concentration:	1 μg/μL		
Buffer:	0.01M TBS( pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.		
Preservative:	ProClin		
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.		
Storage:	4 °C,-20 °C		
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.		

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Handling	
Expiry Date:	12 months
Publications	
Product cited in:	Qu, Zheng, Gan, Lian, He, Li, Yuan, Yang, Li, Ji, Yan, Xu, Guo: "MiR-199a-3p suppresses proliferation and invasion of prostate cancer cells by targeting Smad1." in: <b>Oncotarget</b> , Vol. 8, Issue 32, pp. 52465-52473, (2017) (PubMed).
	Wei, Wang, Zhan, Chen, Fang, Zhang, Zhang: "Smurf1 inhibits integrin activation by controlling Kindlin-2 ubiquitination and degradation." in: <b>The Journal of cell biology</b> , Vol. 216, Issue 5, pp. 1455-1471, (2017) (PubMed).

#### Validation report #029752 for Western Blotting (WB)



#### Immunohistochemistry

**Image 1.** Formalin-fixed and paraffin embedded human lung carcinoma labeled with Anti-Smad1 Polyclonal Antibody, Unconjugated (ABIN732158) at 1:200 followed by conjugation to the secondary antibody and DAB staining

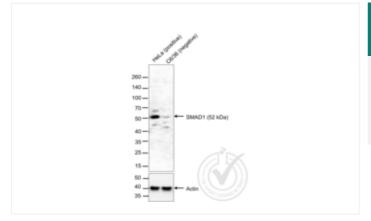
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	Successfully validated (Western Blotting (WB))
	by Alamo Laboratories Inc
	Report Number: 029752
Contract and a second	Date: Jul 03 2014
REPRODUCIBILITY INITIATIVE	
Lot Number:	120918
Method validated:	Western Blotting (WB)
Positive Control:	Hela cells
Negative Control:	c6/36 cells (non-reactive species)
Notes:	A single major band was observed in the positive control at the correct molecular weight.
	Several additional faint bands appeared in both the positive and negative controls, but they did
	not indicate significant non-specific interaction.
Primary Antibody:	- Antigen: SMAD, Mothers Against DPP Homolog 1 (SMAD1) (1:200 dilution) - Catalog number
	ABIN732158 - Supplier: Bioss - Supplier catalog number: bs-1619R - Lot number: 120918
Secondary Antibody:	- Antibody: Goat Anti-Rabbit IgG (H + L)-HRP Conjugate (1:20,000 dilution) - Supplier: Bio-Rad -
	Catalog number: #170-6515 - Lot number: L170-6515
Controls:	Positive control: HeLa cell extract
	Negative control: c6/36 Mosquito cell extract
Protocol:	1. Total protein extracts were boiled in 1X SDS Sample Buffer containing 1% SDS and 1.25%
	<ul> <li>β-mercaptoethanol at 95°C for 5 min prior to loading.</li> <li>2. 58 μg of boiled extracts were loaded and resolved on 8-16% SDS-polyacrylamide gel.</li> </ul>
	<ul> <li>3. The Thermo Scientific - Spectra Multicolor Broad Range (Cat # 26634) were used as</li> </ul>
	molecular mass markers.
	4. Proteins were then transferred onto PVDF membrane by wet transfer and protein transfe
	<ul><li>was confirmed with Ponceau-S staining.</li><li>5. The PVDF membrane was incubated with 25 mL of blocking buffer [Tris Buffered Saline,</li></ul>
	pH 7.4 plus 0.1% TW20 (TBST)] containing 5% (W/V) BSA at room temperature for 1 h.
	<ul> <li>6. The membrane was rinsed with TBST once.</li> </ul>
	• 7. The membrane was immersed with the protein side up in the primary antibody solution
	(anti-SMAD1; 1:200) in TBST containing 5% (W/V) BSA and incubated for 16 h at 4°C.
	• 8. The membrane was rinsed in TBST thrice for 5 min each.
	• 9. The membrane was incubated in the HRP-conjugated secondary antibody solution (Goat
	anti-rabbit IgG-HRP; 1:20,000) in TBST containing 5% (W/V) BSA and incubated for 1 h at

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	<ul> <li>10. The membrane was rinsed in TBST thrice for 5 min each.</li> </ul>
	• 11. The membrane was rinsed in TBS twice for 30 s each.
	<ul> <li>12. Signals were detected with ECL-2 Substrate. The blot was scanned for 300 s.</li> </ul>
	• 13. The membrane was rinsed three times TBST.
	• 14. Incubated in Acidic Glycine Stripping Buffer at room temperature with gentle agitation for
	3 times, 10 min each.
	• 15. The membrane was washed in TBST 2 times for 10 min each.
	• 16. Repeated Steps 5-12 with the loading control antibody (anti-Actin; 1:6,000) and its
	matching secondary antibody (Goat anti-rabbit IgG-HRP; 1:20,000).
Experimental Notes:	- No experimental challenges noted.

### Image for Validation report #029752



Validation image no. 1 for anti-Smad1/5 Protein (SMAD1/5) (AA 361-465) antibody (ABIN732158)

Figure 1. Western blot of lysates from HeLa cells (Lane 1) and c6/36 cells (Lane 2) probed with anti-SMAD1 (upper panel) or with anti-Actin for loading control (lower panel).

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