

Datasheet for ABIN6256175

anti-SMAD1 antibody (pSer187)



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4 Images

1 Publication

Overview

Quantity:	100 µL
Target:	SMAD1
Binding Specificity:	pSer187
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SMAD1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC)

Product Details

Immunogen:	A synthesized peptide derived from human Smad1 around the phosphorylation site of Ser187.
Isotype:	IgG
Specificity:	Phospho-Smad1 (Ser187) Antibody detects endogenous levels of Smad1 only when phosphorylated at Serine 187.
Predicted Reactivity:	Bovine, Sheep, Rabbit, Chicken, Xenopus
Purification:	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns.

Target Details

Target:	SMAD1
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Target Details

Alternative Name:	SMAD1 (SMAD1 Products)
Background:	<p>Description: 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.</p> <p>Gene: SMAD1</p>
Molecular Weight:	60/55kDa
Gene ID:	4086
UniProt:	Q15797
Pathways:	Stem Cell Maintenance , Regulation of Muscle Cell Differentiation , Skeletal Muscle Fiber Development

Application Details

Application Notes:	WB 1:500-1:2000, IHC 1:50-1:200, IF/ICC 1:100-1:500, ELISA(peptide) 1:20000-1:40000
Restrictions:	For Research Use only

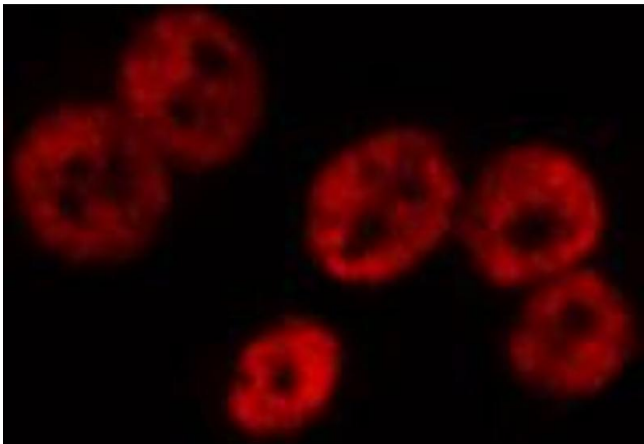
Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	Rabbit IgG in phosphate buffered saline , 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 should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20 °C. Stable for 12 months from date of receipt.
Expiry Date:	12 months

Publications

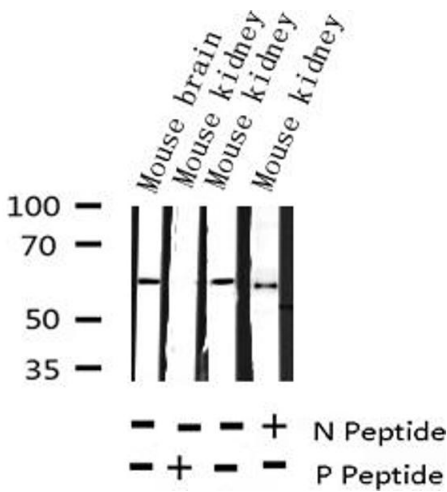
Product cited in: Huang, Zhang, Hou, Wang, Liu, Zhang, Chen, Zhu: "LncRNA AK023391 promotes tumorigenesis and invasion of gastric cancer through activation of the PI3K/Akt signaling pathway." in: **Journal of experimental & clinical cancer research : CR**, Vol. 36, Issue 1, pp. 194, (2018) ([PubMed](#)).

Images



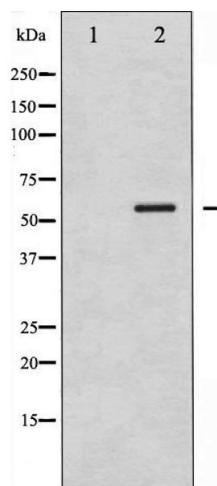
Immunofluorescence (fixed cells)

Image 1. ABIN6267661 staining HeLa by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25°C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37°C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.



Western Blotting

Image 2. Western blot analysis of Phospho-Smad1 (Ser187) expression in various lysates



Western Blotting

Image 3. Western blot analysis of Smad1 phosphorylation expression in Mouse muscletissue lysates, The lane on the left is treated with the antigen-specific peptide.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN6256175.