

Datasheet for ABIN933125
anti-SMAD1 antibody



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3 Images

Overview

Quantity:	100 µg
Target:	SMAD1
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Application:	Western Blotting (WB), Immunocytochemistry (ICC), Immunoprecipitation (IP), Flow Cytometry (FACS), Dot Blot (DB)

Product Details

Immunogen:	SMAD1 antibody was raised in mouse using recombinant Human Smad Family Member 1 (Smad1)
Clone:	913C1b
Isotype:	IgG1
Cross-Reactivity:	Human, Mouse (Murine), Rat (Rattus)
Cross-Reactivity (Details):	Other species not studied.
Purification:	Protein G affinity chromatography

Target Details

Target:	SMAD1
Alternative Name:	SMAD1 (SMAD1 Products)

Target Details

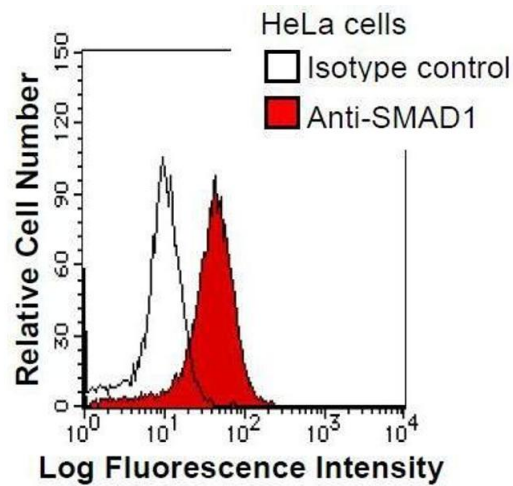
Background:	The protein encoded by this gene belongs to the SMAD, a family of proteins similar to the gene products of the Drosophila gene 'mothers against decapentaplegic' (Mad) and the C. elegans gene Sma. SMAD proteins are signal transducers and transcriptional modulators that mediate multiple signaling pathways. This protein mediates the signals of the bone morphogenetic proteins (BMPs), which are involved in a range of biological activities including cell growth, apoptosis, morphogenesis, development and immune responses. In response to BMP ligands, this protein can be phosphorylated and activated by the BMP receptor kinase. The phosphorylated form of this protein forms a complex with SMAD4, which is important for its function in the transcription regulation. Synonyms: Monoclonal SMAD1 antibody, Anti-SMAD1 antibody, Transforming growth factor beta signaling protein 1 antibody, BSP1 antibody, JV41 antibody, JV4-1 antibody, MADH1 antibody, MADR1 antibody.
Pathways:	Stem Cell Maintenance , Regulation of Muscle Cell Differentiation , Skeletal Muscle Fiber Development

Application Details

Application Notes:	WB: 0.2-2 µg/mL, IP: 100-500 µg/sample, FC: 0.5-2 µg/sample, ICC: 2-100 µg/mL Optimal conditions should be determined by the investigator.
Restrictions:	For Research Use only

Handling

Concentration:	Lot specific
Buffer:	SMAD1 antibody in PBS (3.0 mM KCl, 1.5 mM KH ₂ PO ₄ , 140 mM NaCl, 8.0 mM Na ₂ HPO ₄ (pH 7.4)) containing 1 % bovine serum albumin (BSA) and 0.05 % sodium azide (NaN ₃).
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium Azide: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze/thaw cycles. Dilute only prior to immediate use.
Storage:	4 °C/-20 °C
Storage Comment:	Store at 2-8 °C for up to one year. We recommend long term storage at -20 °C.

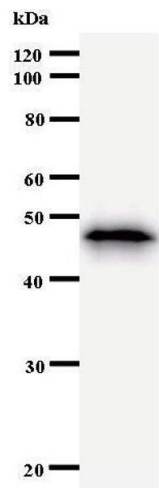
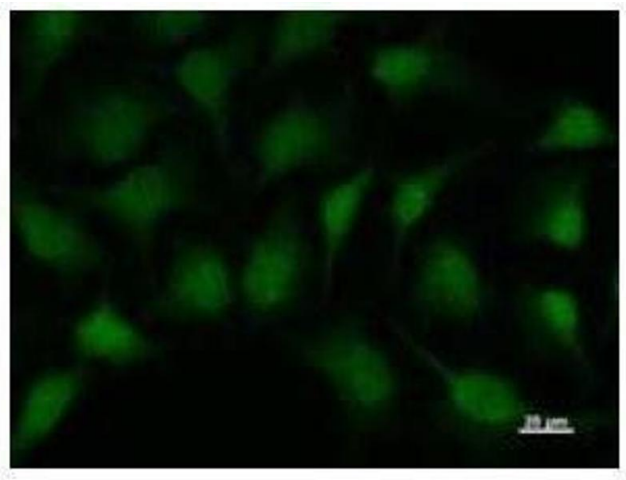


Flow Cytometry

Image 1. HeLa cells were fixed in 2% paraformaldehyde/PBS and then permeabilized in 90% methanol. Cells were stained with anti-SMAD1 antibody (shaded) or isotype control (unshaded) followed by Alexa Fluor 488 conjugated goat anti-mouse IgG.

Immunofluorescence

Image 2. Immunostaining analysis in HeLa cells. HeLa cells were fixed with 4% paraformaldehyde and permeabilized with 0.01% Triton-X100 in PBS. The cells were immunostained with anti-SMAD1 antibody.



Western Blotting

Image 3.