Datasheet for ABIN969404

anti-SMAD5 antibody

4 Images | 2 Publications

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Overview

Quantity:	100 µL
Target:	SMAD5
Reactivity:	Human, Rat
Host:	Mouse
Clonality:	Monoclonal
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Flow Cytometry (FACS), Immunocytochemistry (ICC)

Product Details

Immunogen:	Purified recombinant fragment of human SMAD5 expressed in E. coli.
Clone:	3H9
Isotype:	IgG1
Purification:	purified

Target Details

Target:	SMAD5
Alternative Name:	SMAD5 (SMAD5 Products)
Background:	Description: Transcriptional modulator activated by BMP (bone morphogenetic proteins) type 1 receptor kinase. SMAD5 is a receptor-regulated SMAD (R-SMAD). SMAD5 is required for normal development of the cardiovascular system in vivo, lack of the SMAD5 gene results in apoptosis of cardiac myocytes. 3 Upregulation of SMAD5 has been reported to mediate apoptosis of

Target Details

	gastric epithelial cells induced by Helicobacter pylori infection. Tissue specificity: Ubiquitous. Aliases: Dwfc, JV5-1, MADH5, DKFZp781C1895, DKFZp781O1323, SMAD5
Molecular Weight:	52 kDa
Gene ID:	4090
HGNC:	4090

Application Details

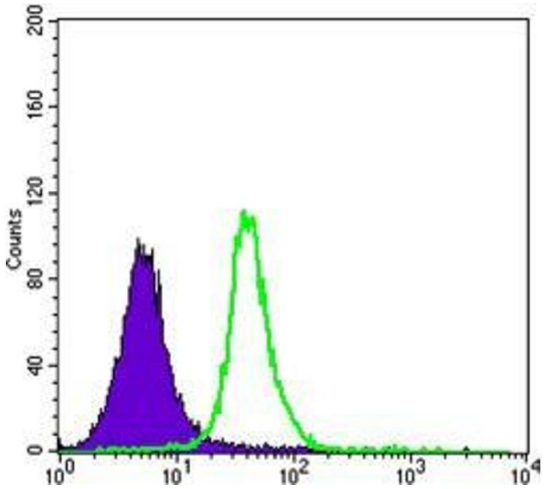
Application Notes:	ELISA: 1:10000, WB: 1:500 - 1:2000, IHC: 1:200 - 1:1000, ICC: 1:200 - 1:1000, FCM: 1:200 - 1:400
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Ascitic fluid containing 0.03 % 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:	4 °C/-20 °C
Storage Comment:	4°C, -20°C for long term storage

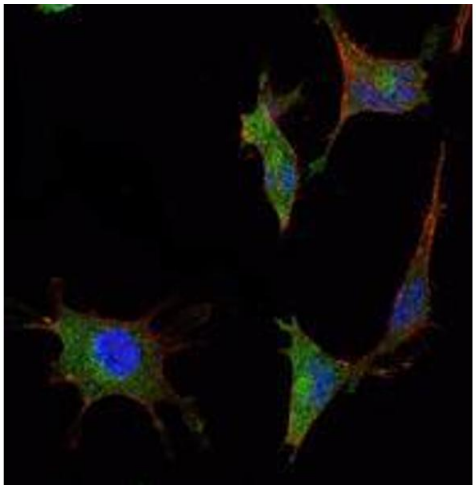
Publications

Product cited in:	Golledge, Biros, Clancy, Cooper, Palmer, Norman: "A single-nucleotide polymorphism in the gene encoding osteoprotegerin is associated with diastolic blood pressure in older men." in: **American journal of hypertension**, Vol. 22, Issue 11, pp. 1167-70, (2009) (PubMed). Talmud, Drenos, Shah, Shah, Palmen, Verzilli, Gaunt, Pallas, Lovering, Li, Casas, Sofat, Kumari, Rodriguez, Johnson, Newhouse, Dominiczak, Samani, Caulfield, Sever, Stanton, Shields, Padmanabhan et al.: "Gene-centric association signals for lipids and apolipoproteins identified via the HumanCVD BeadChip. ..." in: **American journal of human genetics**, Vol. 85, Issue 5, pp. 628-42, (2009) (PubMed).



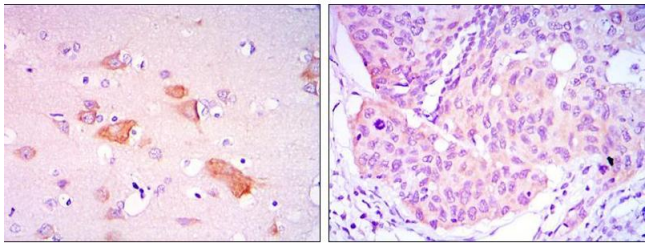
Flow Cytometry

Image 1. Flow cytometric analysis of Jurkat cells using SMAD5 mouse mAb (green) and negative control (purple).



Immunofluorescence

Image 2. Immunofluorescence analysis of NTERA-2 cells using SMAD5 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.



Immunohistochemistry

Image 3. Immunohistochemical analysis of paraffin-embedded brain tissues (left) and lung cancer tissues (right) using SMAD5 mouse mAb with DAB staining.

Please check the product details page for more images. Overall 4 images are available for ABIN969404.