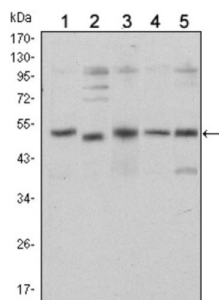
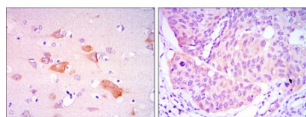


## Mothers Against Decapentaplegic Homolog 5 (SMAD5) Antibody

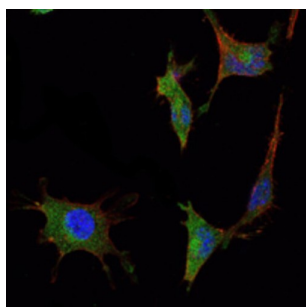
Catalogue No.: abx012276



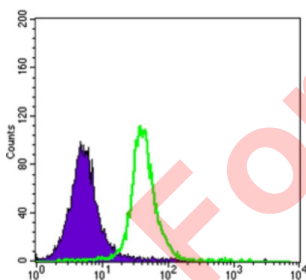
Western blot analysis using SMAD5 antibody against Hela (1), SK-N-SH (2), PC-12 (3), Jurkat (4), and K562 (5) cell lysate.



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



Immunofluorescence analysis of NTERA-2 cells using SMAD5 antibody (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with AF555 phalloidin.



Flow cytometric analysis of Jurkat cells using SMAD5 antibody (green) and negative control (purple).

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 gastric epithelial cells induced by *Helicobacter pylori* infection. Tissue specificity: Ubiquitous.

**Target:** Mothers Against Decapentaplegic Homolog 5 (SMAD5)

**Clonality:** Monoclonal

# Datasheet

Version: 2.0.0  
Revision date: 11 Jun 2025



<b>Reactivity:</b>	Human, Rat
<b>Tested Applications:</b>	ELISA, WB, IHC, IF/ICC, FCM
<b>Host:</b>	Mouse
<b>Recommended dilutions:</b>	ELISA: 1/10000, WB: 1/500 - 1/2000, IHC: 1/200 - 1/1000, IF/ICC: 1/200 - 1/1000, FCM: 1/200 - 1/400. Optimal dilutions/concentrations should be determined by the end user.
<b>Conjugation:</b>	Unconjugated
<b>Immunogen:</b>	Purified recombinant fragment of human SMAD5 expressed in E. coli.
<b>Isotype:</b>	IgG <sub>1</sub>
<b>Form:</b>	Liquid
<b>Purification:</b>	Unpurified ascites.
<b>Storage:</b>	Aliquot and store at -20°C. Avoid repeated freeze/thaw cycles.
<b>UniProt Primary AC:</b>	Q99717 ( <a href="#">UniProt</a> , <a href="#">ExPASy</a> )
<b>GeneID:</b>	<a href="#">4090</a>
<b>KEGG:</b>	hsa:4090
<b>String:</b>	<a href="#">9606.ENSP00000441954</a>
<b>Molecular Weight:</b>	52 kDa
<b>Buffer:</b>	Ascitic fluid containing 0.03% sodium azide.
<b>Concentration:</b>	Not determined.
<b>Note:</b>	THIS PRODUCT IS FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC, THERAPEUTIC OR COSMETIC PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION.