

Datasheet for ABIN6655220
anti-SMAD6 antibody



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1 Image

Overview

Quantity:	100 µg
Target:	SMAD6
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)

Product Details

Purpose:	SMAD6 Antibody
Immunogen:	SMAD6 Antibody was produced from whole rabbit serum prepared by repeated immunizations with a peptide corresponding to two internal amino acid sequences in the human SMAD6 protein.
Isotype:	IgG
Cross-Reactivity (Details):	A BLAST analysis was used to suggest cross-reactivity with Anti-SMAD6 from Human, Mouse, New World monkey, Rat and Sheep based on 100 % homology with the immunizing sequence.
Purification:	Anti-SMAD6 Antibody was purified by Protein G chromatography.

Target Details

Target:	SMAD6
Alternative Name:	SMAD6 (SMAD6 Products)
Background:	Synonyms: MADH6

Target Details

Background: Anti-SMAD6 antibody detects human SMAD6. SMADs are members of the MAD-related family of molecules. MAD-related proteins are a family of intracellular proteins that are essential components in the signaling pathways of the serine/threonine kinase receptors of the transforming growth factor beta superfamily. SMADs can be divided into receptor-regulated SMADs (R-SMADs: SMAD1, 2, 5, 8 and 9), common-mediator SMAD (co-SMAD: SMAD4), and inhibitory SMADs (I-SMADs: SMAD6 and 7). SMAD1, 5, 8 and 9 have high degrees of homology and antibodies are available that recognize sequences common to all of them. SMAD8 and SMAD9 are typically used as alternate names for one another in the literature. Anti-SMAD6 antibody is ideal for investigators involved kinase and phosphatase and NFkappaB research.

Gene Name: SMAD6

Gene ID: 4091

NCBI Accession: [NP_001136333](#)

UniProt: [O43541](#)

Pathways: [Chromatin Binding](#)

Application Details

Application Notes: Immunohistochemistry_Dilution: 5-10 µg/mL

Western_Blot_Dilution: 1-3 µg/mL

Comment: Anti-SMAD6 antibody is tested for use in IHC, IF, and WB. Expect a band approximately 53kDa on specific lysates. Specific conditions for reactivity should be optimized by the end user.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2

Stabilizer: 0.05 % BSA

Preservative: 0.05 % (w/v) 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.

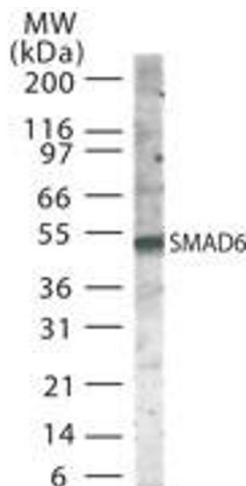
Storage: 4 °C, -20 °C

Handling

Storage Comment: Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Expiry Date: 12 months

Images



Western Blotting

Image 1. SMAD6 Western Blot. Western Blot of Rabbit Anti-SMAD6 antibody. Lane A: Lysate from Jurkat cells. Primary antibody: SMAD6 at 2 µg/mL for overnight at 4°C. Secondary antibody: rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 80 kDa for SMAD6. Other band(s): none.