

# SMAD6

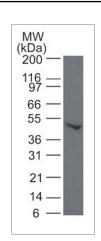
# Rabbit Polyclonal

Cat. # SP4881 **Size** 100 µl

Rev 9/10/2019

## Background

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, 3. 5 and 8), commonmediator SMAD (co-SMAD: SMAD4), and inhibitory SMADs (I-SMADs: SMAD6 and 7). Briefly, activated type I receptors associate with specific R-Smads and phosphorylate them on a conserved SSXS motif at the carboxyterminus of the proteins. The phosphorylated R-Smad dissociates from the receptor and forms a heteromeric complex with the co-Smad, Smad4, and together the complex moves to the nucleus. Once in the nucleus, Smads can target a variety of DNA binding proteins to regulate transcriptional responses.



Western blot analysis of SMAD6 in human Jurkat cells. The blot was probed with rabbit polyclonal SMAD6 antibody (SP4881) at 1:250.

## **Background References**

Topper, J.N. et al. (1997) Natl Acad Sci. U.S.A. 94(17):9314. Attisano, L. & Wrana, J.L. (1998) Curr Opin Cell Biol. 10:188.

Applications	Species Reactivity	Specificity

WB	1:500	Hu, Rt, M
IHC	1:100	

End user should determine optimal dilution for their particular applications

Western blot membranes were incubated with diluted antibody in 5% non-fat milk, PBS, 0.04% Tween20 for 1 hour at room temperature.

This antibody detects SMAD6 at 53 kDa\* on SDS-PAGE immunoblots of human Jurkat cells and mouse C2C12. The antibody can used for western blot and immunohistochemistry.

\*All molecular weights (MW) are confirmed by comparison to Bio-Rad Rainbow Markers and to western blot mobilities of known proteins with similar MW.

#### **Immunogen** Uniprot ID: 043541

This antibody was developed against synthetic peptides corresponding to amino acids 85-99 (RAGGPPRPMSEPGAG) and amino acids 372-388 (NLEQRSESVRRTRSKIG) of human SMAD6 (GenBank Accession No. AAH12986.1). These peptide sequences are specific to SMAD6, and have high homology to SMAD6 in multiple species.

### **Buffer and Storage**

Rabbit polyclonal antibody purified with protein G chromatography is supplied in 100µl phosphate-buffered saline with 0.05% BSA, and 0.05% sodium azide. Store at 4°C. For long term storage, store at -20°C.

### Related Products

AK6060 Actin & Tubulin Antibody Sampler Kit

CK6120 β-Catenin Phospho-Regulation Antibody Sampler Kit

MK6050 MAP Kinase Activation Antibody Sampler Kit

SP4861 SMAD4 Rabbit Polyclonal

SP4901 SMAD7 (N-terminal region) Rabbit Polyclonal

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