

**Anti-Human/Mouse/Rat SMAD1/5/9 Polyclonal Antibody**

**Polyclonal Antibody**

**Cat.NO.: PA05865**

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3th Edition

**Description:** 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, common-mediator SMAD and inhibitory SMADs. SMAD1, SMAD5 and SMAD9 have high degrees of homology. SMAD8 and SMAD9 are used as alternate names for the same protein. Human SMAD1 is a 465 amino acid protein, human SMAD5 is a 465 amino acid and human SMAD9 is a 430 amino acid protein.

**Antigen:** Synthesized peptide derived from the N-terminal region of human Smad1/5/9

**Form:**

**How to use:** 1.0 ml distilled water will be added to the product

**Stability:** Lyophilized product, 5 years at 2 – 8°C; Solution, 2 years at –20°C

**Dilution:** PBS (pH7.4) containing 1% BSA

**Application:** This antibody can be used for western blotting in concentration of 1?5?g/ml.

**Specificity:** SMAD1 is Ubiquitous. Highest expression seen in the heart and skeletal muscle. SMAD5 is Ubiquitous. SMAD9 is Expressed in heart, brain, placenta, lung, skeletal muscle, prostate, testis, ovary and small intestine. Also expressed in fetal brain, lung and kidney.