# PRODUCT INFORMATION

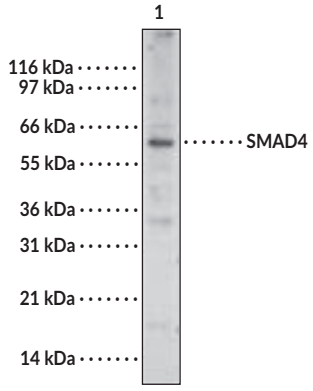
## SMAD4 Polyclonal Antibody

*Item No. 10838*

### Overview and Properties

| | |
|---|---|
| **Contents:** | This vial contains 100 µg of protein G-purified IgG in 200 µl PBS, with 0.2% gelatin and 0.05% sodium azide. |
| **Immunogen:** | Synthetic peptides corresponding to amino acids 186-199 and 509-523 of human SMAD4 |
| **Species Reactivity:** | (+) Human, mouse, new world monkey, and rat SMAD4 |
| **Storage:** | -20°C (as supplied) |
| **Concentration:** | 1.0 mg/ml |
| **Stability:** | ≥6 months |
| **Host:** | Rabbit |
| **Applications:** | Western blot (WB); the recommended starting concentration is 1-3 µg/ml. Other applications were not tested, therefore optimal working concentration/dilution should be determined empirically. |

### Image




**Lane 1:** A549 cell lysate (15 µg)



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## Description

SMADs 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 β superfamily.[1] SMADs can be divided into receptor-regulated SMADs (R-SMADs: SMAD1, SMAD2, SMAD3, SMAD5, SMAD8, and SMAD9), common-mediator SMAD (co-SMAD: SMAD4), and inhibitory SMADs (I-SMADs: SMAD6 and SMAD7). SMAD1, SMAD5, SMAD8, and SMAD9 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.

## Reference


1. Topper, J.N., Cai, J., and Qui, Y. Vascular MADs: Two novel MAD-related genes selectively inducible by flow in human vascular endothelium. *Proc. Natl. Acad. Sci. USA* **94(17)**, 9314-9319 (1997).



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