PRODUCT INFORMATION

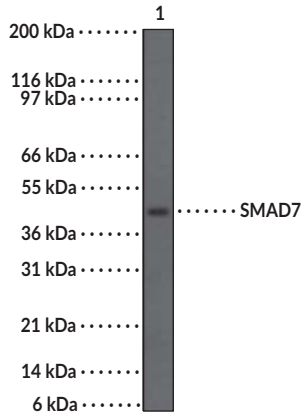
SMAD7 Polyclonal Antibody

Item No. 10845

Overview and Properties

Contents: This vial contains 100 µg of protein G-purified IgG in 200 µl PBS, with 0.05% sodium azide.
Immunogen: Synthetic peptides corresponding to amino acids 12-29 and 36-50 of human SMAD7
Species Reactivity: (+) Human, mouse, ovine, and rat SMAD7
Storage: -20°C (as supplied)
Stability: ≥6 months
Concentration: 1.0 mg/ml
Host: Rabbit
Applications: Western blot (WB); the recommended starting concentration is 2-5 µg/ml. Other applications were not tested, therefore optimal working concentration/dilution should be determined empirically.

Image



Lane 1: HepG2 cell lysate

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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., Qui, Y., *et al.* 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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