

Smad1/Smad5/Smad8 Polyclonal Antibody

Catalog No: #21684



Package Size: #21684-1 50ul #21684-2 100ul

Orders: order@signalwayantibody.com

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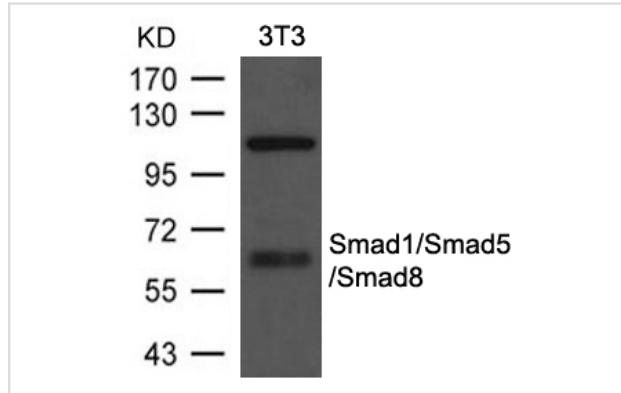
Description

Product Name	Smad1/Smad5/Smad8 Polyclonal Antibody
Host Species	Rabbit
Clonality	Polyclonal
Applications	WB;IHC;IF;ELISA
Species Reactivity	Human;Mouse;Rat
Specificity	The antibody detects endogenous level of total Smad1, Smad5, Smad8 protein.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around aa.461-465(I-S-S-V-S) derived from Human Smad1. This sequence has the same homology in Smad5 and Smad8.
Conjugates	Unconjugated
Target Name	Smad1/Smad5/Smad8
Other Names	Mad-related protein 1, SMAD 1, hSMAD1, Transforming growth factor-beta-signaling protein 1,
Calculated MW	52kDa
SDS-PAGE MW	56kDa-60kDa
Concentration	1.0mg/ml

Application Details

WB 1:1000-1:5000; IHC 1:1000-1:4000; IF 1:200-1:1000; ELISA 1:5000-1:20000;

Images



Western blot analysis of extracts from 3T3 cells using Smad1/Smad5/Smad8 Antibody #21684.

Background

Transcriptional modulator activated by BMP (bone morphogenetic proteins) type 1 receptor kinase. SMAD1 is a receptor-regulated SMAD (R-SMAD). SMAD5 is a receptor-regulated SMAD (R-SMAD). SMAD9 is a receptor-regulated SMAD (R-SMAD). Has been shown to be activated by activin type I receptor-like kinases (ALK-2, ALK-3, ALK-6) which stimulate heteromerization between SMAD9 and SMAD4. May play a role in osteoblast differentiation and maturation.

Published Papers

el at., Inhibition of TGF ϵ Y signaling decreases osteogenic differentiation of fibrodysplasia ossificans progressiva fibroblasts in a novel in vitro model of the disease. In *Bone*. On 2016 Mar by Micha D, Voermans E et al.. PMID:26769004, , (2016)

[PMID:26769004](#)

el at., Vital Roles of Gremlin-1 in Pulmonary Arterial Hypertension Induced by Systemic-to-Pulmonary Shunts. In *J Am Heart Assoc* on 2020 Aug 4 by Liukun

Meng, Xiao Teng, et al.. PMID: 32750294, , (2020)

[PMID:32750294](#)

el at., Hepatoprotective and neuroprotective effects of quinacrine against bile duct ligation-induced hepatic encephalopathy in rats: Role of bone morphogenetic proteins signaling. In *Life Sci* on 2024 Nov 12 by Manar M Esmail, Noha M Saeed, et al.. PMID:39537098, , (2024)

[PMID:39537098](#)

Note: This product is for in vitro research use only and is not intended for use in humans or animals.