Datasheet for ABIN7602588

anti-SMAD7 antibody (AA 88-135)

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Overview

Quantity:	100 µg
Target:	SMAD7
Binding Specificity:	AA 88-135
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SMAD7 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

Product Details

Purpose:	Anti-MADH7/SMAD7 Antibody Picoband®
Immunogen:	E.coli-derived human MADH7/SMAD7 recombinant protein (Position: A88-R135).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-MADH7/SMAD7 Antibody Picoband® (ABIN7602588). Tested in ELISA, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	SMAD7
Alternative Name:	SMAD7 (SMAD7 Products)
Background:	Synonyms: Potassium voltage-gated channel subfamily H member 2, Eag homolog, Ether-a-go-go-related gene potassium channel 1, ERG-1, Eag-related protein 1, Ether-a-go-go-related protein 1, H-ERG, hERG-1, Herg1, Voltage-gated potassium channel subunit Kv11.1, KCNH2, ERG, ERG1, HERG Tissue Specificity: Highly expressed in heart and brain. Isoforms USO are frequently overexpressed in cancer cells. Background: Mothers against decapentaplegic homolog 7 or SMAD7 is a protein that in humans is encoded by the SMAD7 gene. The protein encoded by this gene is a nuclear protein that binds the E3 ubiquitin ligase SMURF2. Upon binding, this complex translocates to the cytoplasm, where it interacts with TGF-beta receptor type-1 (TGFBR1), leading to the degradation of both the encoded protein and TGFBR1. Expression of this gene is induced by TGFBR1. Variations in this gene are a cause of susceptibility to colorectal cancer type 3 (CRCS3). Several transcript variants encoding different isoforms have been found for this gene.
Molecular Weight:	50 kDa
Gene ID:	4092
UniProt:	O15105
Pathways:	Interferon-gamma Pathway, Cell-Cell Junction Organization

Application Details

Application Notes:	Western blot, 0.25-0.5 µg/mL, Mouse, Rat ELISA, 0.1-0.5 µg/mL, - 1. Broderick, P., Carvajal-Carmona, L., Pittman, A. M., Webb, E., Howarth, K., Rowan, A., Lubbe, S., Spain, S., Sullivan, K., Fielding, S., Jaeger, E., Vijayakrishnan, J., and 20 others. A genome-wide association study shows that common alleles of SMAD7 influence colorectal cancer risk. Nature Genet. 39: 1315-1317, 2007. 2. Dong, C., Zhu, S., Wang, T., Yoon, W., Li, Z., Alvarez, R. J., ten Dijke, P., White, B., Wigley, F. M., Goldschmidt-Clermont, P. J. Deficient Smad7 expression: a putative molecular defect in scleroderma. Proc. Nat. Acad. Sci. 99: 3908-3913, 2002. Note: Retraction: Proc. Nat. Acad. Sci. 113: E2208, 2016. 3. Fukasawa, H., Yamamoto, T., Togawa, A., Ohashi, N., Fujigaki, Y., Oda, T., Uchida, C., Kitagawa, K., Hattori, T., Suzuki, S., Kitagawa, M., Hishida, A. Down-regulation of Smad7 expression by ubiquitin-dependent degradation contributes to renal fibrosis in obstructive nephropathy in mice. Proc. Nat. Acad. Sci. 101: 8687-

Application Details

	8692, 2004.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Adding 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Storage:	4 °C,-20 °C
Storage Comment:	At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.

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