

Datasheet for ABIN7601444  
**anti-SMAD7 antibody (AA 353-388)**



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## Overview

|                      |                                      |
|----------------------|--------------------------------------|
| Quantity:            | 100 µg                               |
| Target:              | SMAD7                                |
| Binding Specificity: | AA 353-388                           |
| Reactivity:          | Human                                |
| Host:                | Rabbit                               |
| Clonality:           | Polyclonal                           |
| Conjugate:           | This SMAD7 antibody is un-conjugated |
| Application:         | Western Blotting (WB), ELISA         |

## Product Details

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| Purpose:                    | Anti-MADH7/SMAD7 Antibody Picoband®                                                                                                                                                                                                                                                                                                                                                                                   |
| Immunogen:                  | E.coli-derived human MADH7/SMAD7 recombinant protein (Position: R353-Q388).                                                                                                                                                                                                                                                                                                                                           |
| Isotype:                    | IgG                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Cross-Reactivity (Details): | No cross-reactivity with other proteins.                                                                                                                                                                                                                                                                                                                                                                              |
| Characteristics:            | <p>Anti-MADH7/SMAD7 Antibody Picoband® (ABIN7601444). Tested in ELISA, WB applications.</p> <p>This antibody reacts with Human. 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.</p> |
| Purification:               | Immunogen affinity purified.                                                                                                                                                                                                                                                                                                                                                                                          |

## Target Details

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| Target:           | SMAD7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Alternative Name: | SMAD7 ( <a href="#">SMAD7 Products</a> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Background:       | <p>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</p> <p>Tissue Specificity: Highly expressed in heart and brain. Isoforms USO are frequently overexpressed in cancer cells.</p> <p>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 (TGFB1), leading to the degradation of both the encoded protein and TGFB1. Expression of this gene is induced by TGFB1. 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.</p> |
| Molecular Weight: | 50 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Gene ID:          | 4092                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| UniProt:          | <a href="#">O15105</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Pathways:         | <a href="#">Interferon-gamma Pathway</a> , <a href="#">Cell-Cell Junction Organization</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

## Application Details

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| Application Notes: | <p>Western blot, 0.25-0.5 µg/mL, Human</p> <p>ELISA, 0.1-0.5 µg/mL, -</p> <p>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-</p> |
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Application Details

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|               | 8692, 2004.           |
| Restrictions: | For Research Use only |

Handling

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| Format:          | Lyophilized                                                                                                                                                                                              |
| Reconstitution:  | Add 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 and 0.2 mg Na2HPO4.                                                                                                                                       |
| Storage:         | 4 °C,-20 °C                                                                                                                                                                                              |
| Storage Comment: | Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month.<br>It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles. |