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Datasheet for 200-401-I16

SMAD7 Antibody

Overview

Description:	Anti-SMAD7 (RABBIT) Antibody - 200-401-I16
Item No.:	200-401-I16
Size:	100 µg
Applications:	ELISA, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	Anti-SMAD7 MADH7 antibody detects human SMAD7 MADH7. SMADs are members of the MAD-related family of molecules. MAD-related proteins 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 beta superfamily. SMADs can be divided into receptor-regulated SMADs (R-SMADs: SMAD1, 2, 5, 8 and 9), 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. Anti-SMAD7 MADH7 antibody is ideal for investigators involved kinase and phosphatase research.
Synonyms:	MADH7, MADH8
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	SMAD7
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide

Immunogen:	SMAD7 Antibody was produced from whole rabbit serum prepared by repeated immunizations with SMAD7 peptide.
Purity/Specificity:	Anti-SMAD7 Antibody was purified by Protein G chromatography. A BLAST analysis was used to suggest cross-reactivity with Anti-SMAD7 from human, rat, sheep and mouse based on 100% homology with the immunizing sequence. Cross-reactivity with Anti-SMAD7 from other sources has not been determined.
Relevant Links:	• UniProtKB - O15105 • NCBI - NP_001177750.1 • GeneID - 4092

Application Details

Tested Applications:	ELISA, IHC, WB
Application Note:	Anti-SMAD7 antibody is tested for use in WB, ELISA, and IHC-P. Expect a band approximately 46kDa on specific lysates. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
WB:	2-5 µg/mL

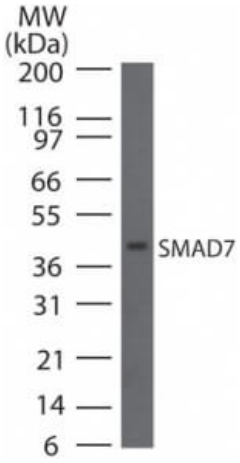
Formulation

Physical State:	Liquid
Concentration:	0.5 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.05% (w/v) Sodium Azide

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Western Blot
Western Blot of Rabbit Anti-SMAD7 MADH7 antibody. Lane A: Lysate from HepG2. Primary antibody: SMAD7 MADH7 at 5 µg/mL for overnight at 4°C. Secondary antibody: IRDye800™ rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C.
Predicted/Observed size: 80 kDa for SMAD7 MADH7. Other band(s): none.

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