

Datasheet for 200-401-I15**SMAD6 Antibody****Overview**

Description:	Anti-SMAD6 (RABBIT) Antibody - 200-401-I15
Item No.:	200-401-I15
Size:	100 µg
Applications:	IF, IHC, WB
Reactivity:	Human
Host Species:	Rabbit

Product Details

Background:	Anti-SMAD6 antibody detects human SMAD6. 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 7). SMAD1, 5, 8 and 9 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-SMAD6 antibody is ideal for investigators involved kinase and phosphatase and NFkappaB research.
Synonyms:	MADH6
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	SMAD6
Reactivity:	Human
Immunogen Type:	Conjugated Peptide

Immunogen:	SMAD6 Antibody was produced from whole rabbit serum prepared by repeated immunizations with a peptide corresponding to two internal amino acid sequences in the human SMAD6 protein.
Purity/Specificity:	Anti-SMAD6 Antibody was purified by Protein G chromatography. A BLAST analysis was used to suggest cross-reactivity with Anti-SMAD6 from Human, Mouse, New World monkey, Rat and Sheep based on 100% homology with the immunizing sequence. Cross-reactivity with Anti-SMAD6 from other sources has not been determined.
Relevant Links:	• UniProtKB - O43541 • NCBI - NP_001136333.1 • GenelD - 4091

Application Details

Tested Applications:	IF, IHC, WB
Application Note:	Anti-SMAD6 antibody is tested for use in IHC-P, IF, and WB. Expect a band approximately 53kDa 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.
IHC:	5-10 µg/mL
WB:	1-3 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
Stabilizer:	0.05% BSA

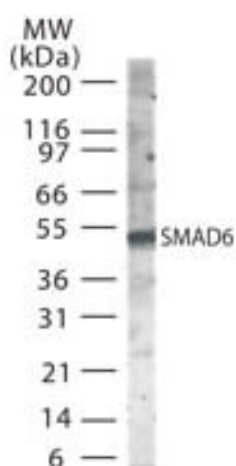
Shipping & Handling

Shipping Condition:	Dry Ice
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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-SMAD6 antibody. Lane A: Lysate from Jurkat cells. Primary antibody: SMAD6 at 2 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 SMAD6. Other band(s): none.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.