

SMAD2 recombinant antibody

Rabbit anti-SMAD2 Recombinant Monoclonal Antibody [BLR130H]

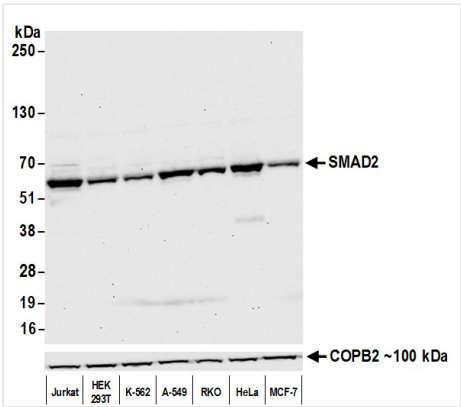
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA23843	Rabbit	Human, Mouse	Western Blot, Immunoprecipitation, Immunohistochemistry, Immunocytochemistry, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

SMAD2; Monoclonal Recombinant Antibody; Rabbit anti-SMAD2 Recombinant Monoclonal Antibody [BLR130H]; mother against DPP homolog 2; SMAD; mothers against DPP homolog 2; SMAD 2; Sma- and Mad-related protein 2; Mothers against DPP homolog 2; mothers against decapentaplegic homolog 2; SMAD family member 2; Mad-related protein 2; Smad2; hSMAD2; hMAD-2; JV18; JV18-1; MAD homolog 2; MADH2; MADR2; Mothers against decapentaplegic homolog 2; SMAD2 recombinant antibody

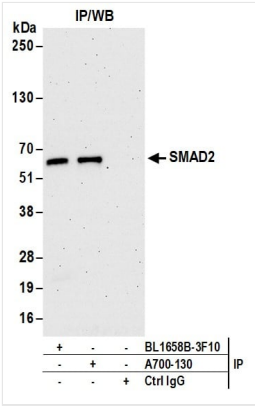
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Monoclonal
Clone Number	BLR130H
Purity/Purification	Purified
Form/Format	Liquid. Whole IgG. Borate Buffered Saline (BBS) pH 8.2 with 0.1% BSA and 0.09% Sodium Azide
Concentration	500ug/ml (varies by lot)
Applicable Applications for SMAD2 recombinant antibody	WB (Western Blot), IP (Immunoprecipitation), IHC (Immunohistochemistry), ICC (Immunocytochemistry), FCM/FACS (Flow Cytometry)
Application Notes	WB: 1:1000 IP: 20 ul/mg lysate IHC: 1:100 to 1:500. Epitope retrieval with citrate buffer pH6.0 is recommended for FFPE tissue sections. ICC: 1:100 to 1:500. Epitope retrieval with citrate buffer pH6.0 is recommended for FFPE cell sections. FC/FACS: Fixed in 4% formaldehyde and permeabilized with 90% methanol. 1 ul per 1 x 10 ⁶ cells.
Immunogen	Between 225 and 275
Conjugation	Unconjugated
Preparation and Storage	Store at 2-8 degree C Shelf Life: 1 year from date of receipt



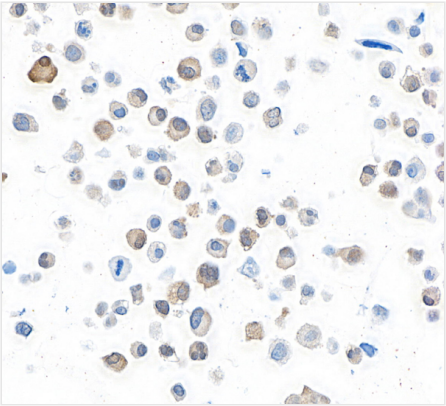
WB (Western Blot)

Detection of human SMAD2 by western blot. Samples: Whole cell lysate (50 ug) from Jurkat, HEK293T, K-562, A-549, RKO, HeLa, and MCF-7 cells prepared using NETN lysis buffer. Antibody: Rabbit anti-SMAD2 recombinant monoclonal antibody (AAA23843 lot 1) used at 1:1000. Secondary: HRP-conjugated goat anti-rabbit IgG . Detection: Chemiluminescence with an exposure time of 30 seconds.



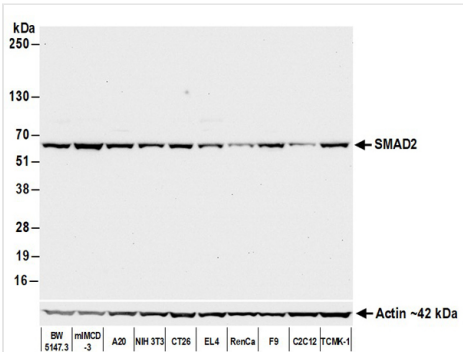
IP (Immunoprecipitation)

Detection of human SMAD2 by western blot of immunoprecipitates. Samples: Whole cell lysate (1.0 mg per IP reaction; 20% of IP loaded) from HeLa cells prepared using NETN lysis buffer. Antibodies: Rabbit anti-SMAD2 recombinant monoclonal antibody (AAA23843 lot 1) used for IP at 12 ul per reaction. SMAD2 was also immunoprecipitated by rabbit anti-SMAD2 antibody BL1658B-3F10. For blotting immunoprecipitated SMAD2, AAA23843 was used at 1:1000. Detection: Chemiluminescence with an exposure time of 75 seconds.



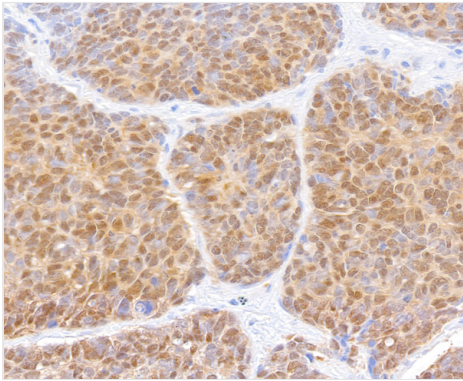
ICC (Immunocytochemistry)

Detection of human SMAD2 in FFPE A549 cells by immunocytochemistry. Antibody: Rabbit anti-SMAD2 recombinant monoclonal antibody (AAA23843 lot 1). Secondary: HRP-conjugated goat anti-rabbit IgG . Substrate: DAB.



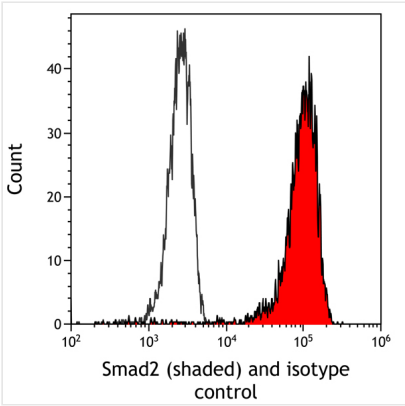
WB (Western Blot)

Detection of mouse SMAD2 by western blot. Samples: Whole cell lysate (50 ug) from BW5147.3, mlMCD-3, A20, NIH 3T3, CT26, EL4, RenCa, F9, C2C12, and TCMK-1 cells prepared using NETN lysis buffer. Antibody: Rabbit anti-SMAD2 recombinant monoclonal antibody (AAA23843 lot 1) used at 1:1000. Secondary: HRP-conjugated goat anti-rabbit IgG . Detection: Chemiluminescence with an exposure time of 10 seconds.



IHC (Immunohistochemistry)

Detection of human SMAD2 in FFPE lung carcinoma by immunohistochemistry. Antibody: Rabbit anti-SMAD2 recombinant monoclonal antibody (AAA23843 lot 1). Secondary: HRP-conjugated goat anti-rabbit IgG . Substrate: DAB.



FCM (Flow Cytometry)

Detection of human Smad2 (shaded) in HeLa cells by flow cytometry. Antibody: Rabbit anti-Smad2 recombinant monoclonal antibody (AAA23843 lot 1) or isotype control (unshaded). Secondary: DyLight 488-conjugated goat anti-rabbit IgG .

ADDITIONAL INFORMATION

Related Product Information for SMAD2 recombinant antibody	SMAD2 belongs to the SMAD family of proteins similar to the gene products of the Drosophila gene 'mothers against decapentaplegic' (Mad) and the C. elegans gene Sma. SMAD proteins are signal transducers and transcriptional modulators that mediate multiple signaling pathways. SMAD2 mediates the signal of the transforming growth factor (TGF)-beta, and thus regulates multiple cellular processes, such as cell proliferation, apoptosis, and differentiation. [taken from NCBI Entrez Gene (Gene ID: 4087)].
Product Categories/Family for SMAD2 recombinant antibody	Primary Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	5174511
NCBI GeneID	4087
NCBI Accession #	NP_005892.1
NCBI GenBank Nucleotide #	NM_005901.5
UniProt Accession #	Q15796
Molecular Weight	48,956 Da
NCBI Official Full Name	mothers against decapentaplegic homolog 2 isoform 1
NCBI Official Synonym Full Names	SMAD family member 2
NCBI Official Symbol	SMAD2
NCBI Official Synonym Symbols	JV18; MADH2; MADR2; JV18-1; hMAD-2; hSMAD2
NCBI Protein Information	mothers against decapentaplegic homolog 2; MAD homolog 2; mother against DPP homolog 2; Sma- and Mad-related protein 2; SMAD, mothers against DPP homolog 2
UniProt Protein Name	Mothers against decapentaplegic homolog 2
UniProt Gene Name	SMAD2
UniProt Synonym Gene Names	MADH2; MADR2; MAD homolog 2; Mothers against DPP homolog 2; hMAD-2; SMAD 2; Smad2; hSMAD2
UniProt Entry Name	SMAD2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/smad2-recombinant-antibody-clone-blr130h-western-blot-immunoprecipitation-immunohistochemistry-immunocytochemistry-flow-cytometry-elisa/23843>