

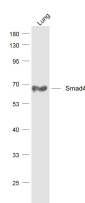
bsm-52225R**[Primary Antibody]****Smad4 Recombinant Rabbit mAb****Bioss**
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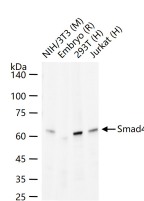
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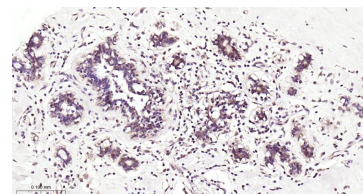
400-901-9800

— DATASHEET —**Host:** Rabbit**Isotype:** IgG**Clonality:** Recombinant**CloneNo.:** 3A1**GeneID:** 4089**SWISS:** Q13485**Target:** Smad4**Immunogen:** A synthesized peptide derived from human SMAD4: 500-552/552.**Purification:** affinity purified by Protein A**Concentration:** 1mg/ml**Storage:** 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.**Background:** Smad 4 is a member of the Mothers Against Dpp (MAD)-related family of proteins. So far, eight Smads have been identified and can be divided in 3 subgroups based on their structure and functions; pathway-restricted, common mediator and inhibitory Smad. Smad 4 is the common Smad (co-Smad). Previously identified as the tumor suppressor DPC4 (deleted in pancreatic carcinoma, locus 4), Smad 4 is functionally distinct among the Smad family, and is required for the assembly and transcriptional activation of diverse, Smad-DNA complexes. In contrast to the R-Smads, Smad 4 is not regulated by phosphorylation, but acts as a common mediator of TGF-Beta, activin, and bone morphogenetic protein signaling responses. Smad 4 is frequently inactivated in pancreatic, biliary and colorectal tumors.**Applications:** **WB** (1:500-2000)**IHC-P** (1:50-200)**IHC-F** (1:50-200)**IF** (1:50-200)**Reactivity:** Human, Mouse, Rat**Predicted MW.:** 60 kDa**Subcellular Location:** Cytoplasm ,Nucleus**— VALIDATION IMAGES —**

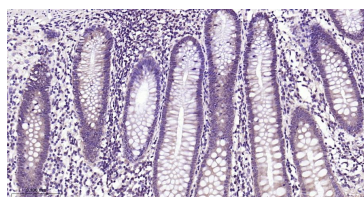
Sample: Lung (Mouse) Lysate at 40 ug Primary:
Anti-Smad4 (bsm-52225R) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at
1/20000 dilution Predicted band size: 60 kD
Observed band size: 60 kD



25 ug total protein per lane of various lysates
(see on figure) probed with Smad4 monoclonal
antibody, unconjugated (bsm-52225R) at 1:1000
dilution and 4°C overnight incubation. Followed
by conjugated secondary antibody incubation at
r.t. for 60 min.



Paraformaldehyde-fixed, paraffin embedded
Human Breast; Antigen retrieval by boiling in
sodium citrate buffer (pH6.0) for 15 min;
Antibody incubation with Smad4 Monoclonal
Antibody, Unconjugated(bsm-52225R) at 1:200
overnight at 4°C, followed by conjugation to the
bs-0295G-HRP and DAB (C-0010) staining.



Paraformaldehyde-fixed, paraffin embedded
Human Colon; Antigen retrieval by boiling in
sodium citrate buffer (pH6.0) for 15 min;
Antibody incubation with Smad4 Monoclonal
Antibody, Unconjugated(bsm-52225R) at 1:200
overnight at 4°C, followed by conjugation to the

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

bs-0295G-HRP and DAB (C-0010) staining.