Smad2 (Phospho Ser255) mouse mAb

Catalog No	BYmab-01490
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	SMAD2 MADH2 MADR2
Protein Name	Smad2 (Phospho Ser255)
Immunogen	Synthesized peptide derived from human Smad2 (Phospho Ser255)
Specificity	This antibody detects endogenous levels of Human,Mouse,Rat Smad2 (Phospho Ser255)
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	Mothers against decapentaplegic homolog 2 (MAD homolog 2;Mothers against DPP homolog 2;JV18-1;Mad-related protein 2;hMAD-2;SMAD family member 2;SMAD 2;Smad2;hSMAD2)
Observed Band	55kD
Cell Pathway	Cytoplasm . Nucleus . Cytoplasmic and nuclear in the absence of TGF-beta. On TGF-beta stimulation, migrates to the nucleus when complexed with SMAD4 (PubMed:9865696, PubMed:21145499). On dephosphorylation by phosphatase PPM1A, released from the SMAD2/SMAD4 complex, and exported out of the nucleus by interaction with RANBP1 (PubMed:16751101, PubMed:19289081). Localized mainly to the nucleus in the early stages of embryo development with expression becoming evident in the cytoplasm at the blastocyst and epiblast stages (By similarity). .
Tissue Specificity	Expressed at high levels in skeletal muscle, endothelial cells, heart and placenta.
Function	embryonic axis specification, in utero embryonic development, formation of primary germ layer, mesoderm formation,peptide secretion, generation of a signal involved in cell-cell signaling, regionalization, transcription, regulation of

	transcription, DNA-dependent, regulation of transcription from RNA polymerase II promoter, RNA processing, protein complex assembly, protein amino acid phosphorylation, phosphorus metabolic process, phosphate metabolic process,cell surface receptor linked signal transduction, enzyme linked receptor protein signaling pathway, transmembrane receptor protein serine/threonine kinase signaling pathway, transforming growth factor beta receptor signaling pathway, SMAD protein complex assembly, intracellular signaling cascade, cell-cell signaling, zygotic determination of dorsal/ventral axis, gastrulation, pattern specification process, mesoderm development, heart
Background	
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

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