Smad1 (Phospho Ser214) Rabbit pAb

CatalogNo: YP1577

Key Features

Host Species	Reactivity	Applications
• Rabbit	• Human,Mouse,Rat	• WB,IHC

MW	Isotype
• 51kD (Observed)	• IgG

Storage

Storage*	-15°C to -25°C/1 year (Do not lower than -25°C)
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

WB 1:500-2000
IHC 1:50-300

Basic Information

Clonality	Polyclonal

Immunogen Information

Immunogen	Synthesized peptide derived from human Smad1 (Phospho Ser214)
Specificity	This antibody detects endogenous levels of Human,Mouse,Rat Smad1 (Phospho Ser214).The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):PGsPF

Target Information

Gene name SMAD1 BSP1 MADH1 MADR1

Protein Name Smad1 (Phospho Ser214)

Organism	Gene ID	UniProt ID
Human	4086;	Q15797;
Mouse	17125;	P70340;
Rat		P97588;

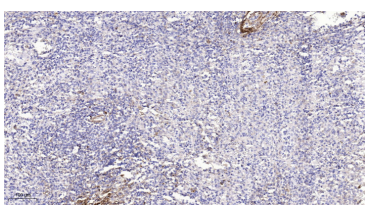
Cellular Localization Cytoplasm . Nucleus . Cytoplasmic in the absence of ligand. Migrates to the nucleus when complexed with SMAD4 (PubMed:15647271) . Co-localizes with LEMD3 at the nucleus inner membrane (PubMed:15647271) . Exported from the nucleus to the cytoplasm when dephosphorylated (By similarity) . .

Tissue specificity Ubiquitous. Highest expression seen in the heart and skeletal muscle.

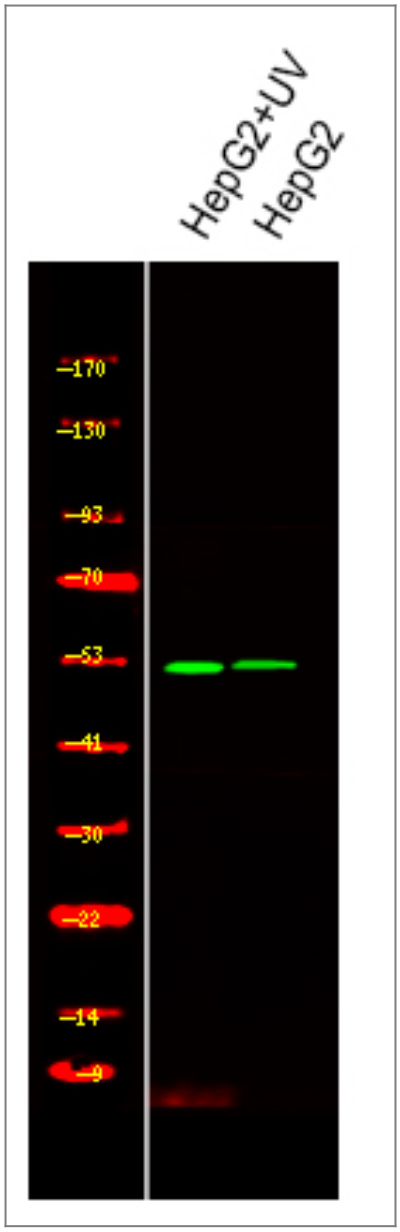
Function

MAPKKK cascade , skeletal system development , ossification , osteoblast differentiation , urogenital system development , formation of primary germ layer , mesoderm formation , mesodermal cell fate commitment , kidney development , osteoblast fate commitment , transcription , regulation of transcription , DNA-dependent , regulation of transcription from RNA polymerase II promoter , RNA processing , protein complex assembly , defense response ,inflammatory response , 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 , protein kinase cascade , gamete generation , gastrulation , pattern specification process , mesoderm development , negative regulation of cell proliferation , response to wounding , response to endogenous stimulus , embryonic pattern specification ,positive regulation of biosynthetic process , response to organic substance , response to organic nitrogen , positive regulation of macromolecule biosynthetic process , positive regulation of macromolecule metabolic process , negative regulation of macromolecule metabolic process , posttranscriptional regulation of gene expression , positive regulation of gene expression , negative regulation of gene expression , positive regulation of cell development , regulation of cell morphogenesis involved in differentiation , regulation of neuron projection development , posttranscriptional gene silencing , gene silencing , sexual reproduction , regulation of cell morphogenesis , regulation of ossification , BMP signaling pathway , midbrain development , hindbrain development , gene silencing by RNA , dsRNA fragmentation ,primary microRNA processing , positive regulation of cellular biosynthetic process , regulation of cell projection organization , positive regulation of cell projection organization , multicellular organism reproduction , ncRNA processing ,cellular macromolecular complex subunit organization , cellular macromolecular complex assembly , posttranscriptional gene silencing by RNA , gene silencing by miRNA , gene silencing by miRNA , production of miRNAs , regulation of gene expression , epigenetic , wound healing , regulation of cell proliferation , response to drug , homeostatic process ,response to dsRNA , cellular protein complex assembly , macromolecular complex subunit organization , cell fate commitment , regulation of transcription , positive regulation of cell differentiation , regulation of neuron differentiation ,regulation of osteoblast differentiation , positive regulation of osteoblast differentiation , regulation of anti-apoptosis ,positive regulation of anti-apoptosis , positive regulation of transcription , DNA-dependent , positive regulation of nucleobase , nucleoside , nucleotide and nucleic acid metabolic process , positive regulation of transcription , positive regulation of transcription from RNA polymerase II promoter , mesoderm morphogenesis , mesodermal cell differentiation , embryonic morphogenesis , reproductive process in a multicellular organism , tissue morphogenesis ,regulation of dendrite morphogenesis , regulation of neurogenesis , positive regulation of neurogenesis , regulation of dendrite development , positive regulation of dendrite morphogenesis , positive regulation of developmental process ,positive regulation of cellular component organization , positive regulation of nitrogen compound metabolic process ,regulation of RNA metabolic process , positive regulation of RNA metabolic process , regulation of nervous system development , regulation of cell development , bone development , macromolecular complex assembly , protein complex biogenesis ,

Validation Data



Immunohistochemical analysis of paraffin-embedded human spleen. 1, Antibody was diluted at 1:200 (4℃ overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200 (room temperature, 45min).



Western Blot analysis of various,using primary antibody at 1:1000 dilution. Secondary antibody (catalog#:RS23920) was diluted at 1:10000

Contact information

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