Smad3 (Phospho-Ser208) Antibody

Catalog No: #12075

Package Size: #12075-1 50ul #12075-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

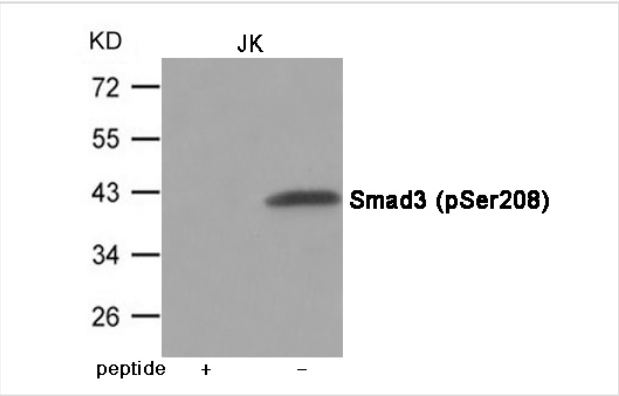
Product Name	Smad3 (Phospho-Ser208) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatogramphy using non-phosphopeptide.
Applications	WB
Species Reactivity	Hu Ms Rt
Specificity	The antibody detects endogenous level of Smad3 only when phosphorylated at Serine 208.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around phosphorylation site of Serine 208 (N-L-S(p)-P-N) derived from Human Smad3.
Target Name	Smad3
Modification	Phospho
Other Names	LDS3, LDS1C, MADH3, JV15-2, HSPC193
Accession No.	Swiss-Prot#: P84022; NCBI Gene#: 4088; NCBI Protein#: NP_001138574.1
Uniprot	P84022
GeneID	4088;
SDS-PAGE MW	40kd
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C/1 year

Application Details

Predicted MW: 40kd

Western blotting: 1:500~1:1000

Images



Western blot analysis of extracts from JK cells using Smad3 (Phospho-Ser208) Antibody #12075.The lane on the left is treated with the antigen-specific peptide.

Background

Receptor-regulated SMAD (R-SMAD) that is an intracellular signal transducer and transcriptional modulator activated by TGF-beta (transforming growth factor) and activin type 1 receptor kinases. Binds the TRE element in the promoter region of many genes that are regulated by TGF-beta and, on formation of the SMAD3/SMAD4 complex, activates transcription. Also can form a SMAD3/SMAD4/JUN/FOS complex at the AP-1/SMAD site to regulate TGF-beta-mediated transcription. Has an inhibitory effect on wound healing probably by modulating both growth and migration of primary keratinocytes and by altering the TGF-mediated chemotaxis of monocytes. This effect on wound healing appears to be hormone-sensitive. Regulator of chondrogenesis and osteogenesis and inhibits early healing of bone fractures. Positively regulates PDPK1 kinase activity by stimulating its dissociation from the 14-3-3 protein YWHAQ which acts as a negative regulator.

Note: This product is for in vitro research use only