

Smad6 Monoclonal Antibody

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| Catalog No : | YM0585 |
| Reactivity : | Human |
| Applications : | WB;ELISA |
| Target : | Smad6 |
| Fields : | >>TGF-beta signaling pathway |
| Gene Name : | SMAD6 |
| Protein Name : | Mothers against decapentaplegic homolog 6 |
| Human Gene Id : | 4091 |
| Human Swiss Prot No : | O43541 |
| Mouse Swiss Prot No : | O35182 |
| Immunogen : | Purified recombinant fragment of human Smad6 expressed in E. Coli. |
| Specificity : | Smad6 Monoclonal Antibody detects endogenous levels of Smad6 protein. |
| Formulation : | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide. |
| Source : | Monoclonal, Mouse |
| Dilution : | WB 1:500 - 1:2000. ELISA: 1:10000. Not yet tested in other applications. |
| Purification : | Affinity purification |
| Storage Stability : | -15°C to -25°C/1 year(Do not lower than -25°C) |
| Molecularweight : | 53kD |
| Cell Pathway : | TGF-beta; |

P References :

1. J Biol Chem. 2006 Feb 10;281(6):3569-76.
2. Nat Immunol. 2006 Oct;7(10):1057-65.
3. J Med Genet. 2009 May;46(5):331-7.

Background :

The protein encoded by this gene belongs to the SMAD family of proteins, which are related to *Drosophila* mothers against decapentaplegic (Mad) and *C. elegans* Sma. SMAD proteins are signal transducers and transcriptional modulators that mediate multiple signaling pathways. This protein functions in the negative regulation of BMP and TGF-beta/activin-signalling. Multiple transcript variants have been found for this gene.[provided by RefSeq, Sep 2014],

Function :

function:Antagonist of signaling by TGF-beta (transforming growth factor) type 1 receptor superfamily members; has been shown to inhibit selectively BMP (bone morphogenetic proteins) signaling by competing with the co-SMAD SMAD4 for receptor-activated SMAD1. SMAD6 is an inhibitory SMAD (I-SMAD) or antagonistic SMAD. Binds to regulatory elements in target promoter regions.,PTM:Phosphorylated by BMP type 1 receptor kinase and by PRKX.,similarity:Belongs to the dwarfin/SMAD family.,similarity:Contains 1 MH1 (MAD homology 1) domain.,similarity:Contains 1 MH2 (MAD homology 2) domain.,subunit:Interacts with NEDD4L (By similarity). Interacts with RNF111 and AXIN1. Interacts with TGF-beta type I receptor superfamily members, SMAD1, HOXC8 and HOXC9. Interacts with STAMBP and PRKX.,tissue specificity:Ubiquitous in various organs, with higher levels in lung. Isoform B is up-regulated in diseased he

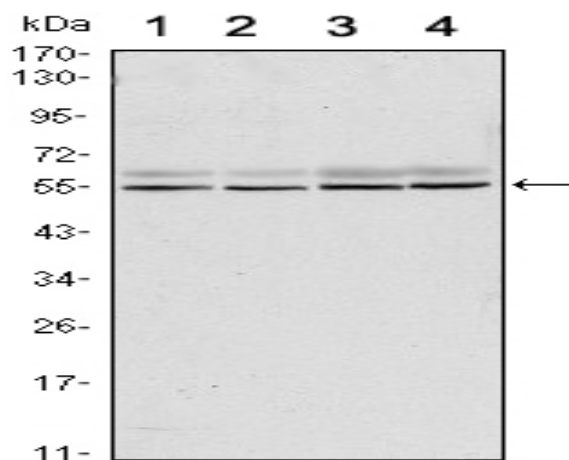
Subcellular Location :

Nucleus .

Expression :

Ubiquitous in various organs, with higher levels in lung. Isoform B is up-regulated in diseased heart tissue.

Products Images



Western Blot analysis using Smad6 Monoclonal Antibody against A431 (1), A431 (2), HeLa (3) and Jurkat (4) cell lysate.