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SMAD6 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP20196b

Specification

SMAD6 Antibody (C-term) - Product Information

Application	**WB,E**
Primary Accession	O43541
Other Accession	O35182, NP_005576.3
Reactivity	**Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**53497**
Antigen Region	**357-386**

SMAD6 Antibody (C-term) - Additional Information

Gene ID 4091

Other Names
Mothers against decapentaplegic homolog 6, MAD homolog 6, Mothers against DPP homolog 6, SMAD family member 6, SMAD 6, Smad6, hSMAD6, SMAD6, MADH6

Target/Specificity
This SMAD6 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 357-386 amino acids from the C-terminal region of human SMAD6.

Dilution
WB~~1:1000

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
SMAD6 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

SMAD6 Antibody (C-term) - Protein Information

Name SMAD6

Synonyms MADH6

Function Transforming growth factor-beta superfamily receptors signaling occurs through the Smad family of intracellular mediators. SMAD6 is an inhibitory Smad (i-Smad) that negatively regulates signaling downstream of type I transforming growth factor-beta (PubMed:9436979, PubMed:16951688, PubMed:22275001, PubMed:9759503, PubMed:10647776, PubMed:10708948, PubMed:10708949, PubMed:30848080). Acts as a mediator of TGF-beta and BMP anti-inflammatory activities. Suppresses IL1R-TLR signaling through its direct interaction with PEL1, preventing NF-kappa-B activation, nuclear transport and NF-kappa-B- mediated expression of pro-inflammatory genes (PubMed:16951688). Blocks the BMP-SMAD1 signaling pathway by competing with SMAD4 for receptor- activated SMAD1-binding (PubMed:9436979, PubMed:30848080). Binds to regulatory elements in target promoter regions (PubMed:16491121).

Cellular Location
Nucleus.

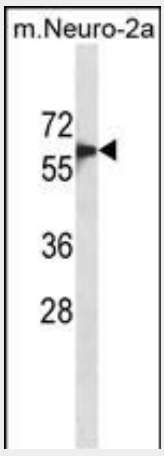
Tissue Location
[Isoform B]: Expressed in the brain, heart, ovary, peripheral blood leukocytes, small intestine, spleen, thymus, bone marrow, fetal liver and lymph nodes.

SMAD6 Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

SMAD6 Antibody (C-term) - Images



SMAD6 Antibody (C-term) (Cat. #AP20196b) western blot analysis in mouse Neuro-2a cell line lysates (35ug/lane).This demonstrates the SMAD6 antibody detected the SMAD6 protein (arrow).

SMAD6 Antibody (C-term) - 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 encoding different isoforms have been found for this gene.

SMAD6 Antibody (C-term) - References

Ryan, J.D., et al. Hepatology 52(4):1266-1273(2010)
Mangone, F.R., et al. Mol. Cancer 9, 106 (2010) :
Tseng, Z.H., et al. Heart Rhythm 6(12):1745-1750(2009)
Yu, H., et al. Acta Derm. Venereol. 89(4):351-356(2009)
Verschueren, K., et al. Cytokine Growth Factor Rev. 10 (3-4), 187-199 (1999) :