

SMAD6 Antibody (Center) Blocking peptide
Synthetic peptide
Catalog # BP5344c**Specification**

SMAD6 Antibody (Center) Blocking peptide - Product Information

Primary Accession [O43541](#)
Other Accession [NP_005576.3](#)

SMAD6 Antibody (Center) Blocking peptide - 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

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

SMAD6 Antibody (Center) Blocking peptide - 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 (Center) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

SMAD6 Antibody (Center) Blocking peptide - Images**SMAD6 Antibody (Center) Blocking peptide - Background**

SMAD6 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.

SMAD6 Antibody (Center) Blocking peptide - References

Tseng, Z.H., et al. Heart Rhythm 6(12):1745-1750(2009)Shintani, M., et al. J. Med. Genet. 46(5):331-337(2009)Yu, H., et al. Acta Derm. Venereol. 89(4):351-356(2009)