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SMAD6 Antibody (aa85-99)
Rabbit Polyclonal Antibody
Catalog # ALS12106

Specification

SMAD6 Antibody (aa85-99) - Product Information

Application	**IHC**
Primary Accession	O43541
Reactivity	**Human, Pig**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**53kDa KDa**

SMAD6 Antibody (aa85-99) - 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
Synthetic peptides corresponding to amino acids 85-99 (RAGGPPRPMSEPGAG) and amino acids 372-388 (NLEQRSESVRRTRSKIG) of human SMAD6 (GenBank Accession No. AAH12986.1). These peptide sequences are specific to SMAD6, and have high homology to SMAD6in mu ...

Reconstitution & Storage
Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles.

Precautions
SMAD6 Antibody (aa85-99) is for research use only and not for use in diagnostic or therapeutic procedures.

SMAD6 Antibody (aa85-99) - 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:<a

href="http://www.uniprot.org/citations/10708948" target="_blank">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.

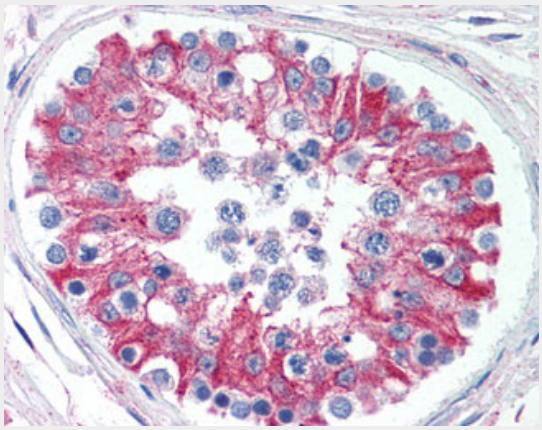
Tissue Location
[Isoform B]: Expressed in the brain, heart, ovary, peripheral blood leukocytes, small intestine, spleen, thymus, bone marrow, fetal liver and lymph nodes.

SMAD6 Antibody (aa85-99) - 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 (aa85-99) - Images



Anti-SMAD6 antibody IHC of human testis.

SMAD6 Antibody (aa85-99) - Background

Acts as a mediator of TGF-beta and BMP antiflammatory activity. Suppresses IL1R-TLR signaling through its direct interaction with PEL1, preventing NF-kappa-B activation, nuclear transport and

NF-kappa-B-mediated expression of proinflammatory genes. May block the BMP-SMAD1 signaling pathway by competing with SMAD4 for receptor-activated SMAD1-binding. Binds to regulatory elements in target promoter regions.

SMAD6 Antibody (aa85-99) - References

Riggins G.J.,et al.Nat. Genet. 13:347-349(1996).
Hata A.,et al.Genes Dev. 12:186-197(1998).
Afrakhte M.,et al.Biochem. Biophys. Res. Commun. 249:505-511(1998).
Hagiwara K.,et al.Submitted (JAN-1998) to the EMBL/GenBank/DDBJ databases.
Konrad L.,et al.Submitted (NOV-2007) to the EMBL/GenBank/DDBJ databases.