

SMAD6 Antibody (clone 1G2)
Mouse Monoclonal Antibody
Catalog # ALS13355**Specification**

SMAD6 Antibody (clone 1G2) - Product Information

Application	IHC
Primary Accession	O43541
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Calculated MW	53kDa KDa

SMAD6 Antibody (clone 1G2) - 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

Reconstitution & Storage

Store at -20°C. Aliquot to avoid freeze/thaw cycles.

Precautions

SMAD6 Antibody (clone 1G2) is for research use only and not for use in diagnostic or therapeutic procedures.

SMAD6 Antibody (clone 1G2) - 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.

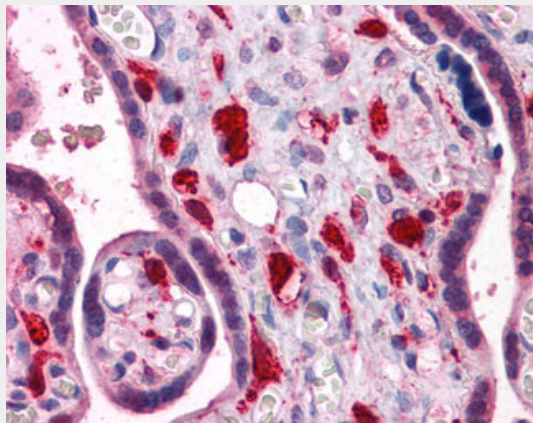
Tissue Location

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

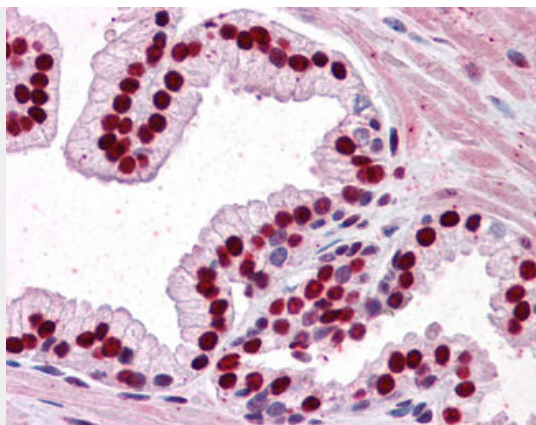
SMAD6 Antibody (clone 1G2) - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

SMAD6 Antibody (clone 1G2) - Images

Anti-SMAD6 antibody IHC of human placenta.



Anti-SMAD6 antibody IHC of human prostate.

SMAD6 Antibody (clone 1G2) - 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 (clone 1G2) - 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.