

SMAD7 Antibody (aa49-317)
Rabbit Polyclonal Antibody
Catalog # ALS17017**Specification**

SMAD7 Antibody (aa49-317) - Product Information

Application	IHC
Primary Accession	O15105
Other Accession	4092
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	46426

SMAD7 Antibody (aa49-317) - Additional Information**Gene ID** 4092**Other Names**

SMAD7, CRCS3, HSMAD7, MAD homolog 7, SMAD 7, MADH7, MADH8, Mothers against DPP homolog 7, Mothers against DPP homolog 8, MAD homolog 8, SMAD family member 7

Target/Specificity

Human SMAD7

Reconstitution & Storage

0.1 M Tris-glycine, pH 7, 10% Glycerol, 0.01% Thimerosal. Keep as concentrated solution. Aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.

Precautions

SMAD7 Antibody (aa49-317) is for research use only and not for use in diagnostic or therapeutic procedures.

SMAD7 Antibody (aa49-317) - Protein Information**Name** SMAD7**Synonyms** MADH7, MADH8**Function**

Antagonist of signaling by TGF-beta (transforming growth factor) type 1 receptor superfamily members; has been shown to inhibit TGF-beta (Transforming growth factor) and activin signaling by associating with their receptors thus preventing SMAD2 access (PubMed:21791611). Functions as an adapter to recruit SMURF2 to the TGF-beta receptor complex. Also acts by recruiting the PPP1R15A-PP1 complex to TGFBR1, which promotes its dephosphorylation. Positively regulates PDPK1 kinase activity by stimulating its dissociation from the 14-3-3 protein YWHAQ which acts as

a negative regulator.

Cellular Location

Nucleus. Cytoplasm. Note=Interaction with NEDD4L or RNF111 induces translocation from the nucleus to the cytoplasm (PubMed:16601693). TGF-beta stimulates its translocation from the nucleus to the cytoplasm. PDPK1 inhibits its translocation from the nucleus to the cytoplasm in response to TGF-beta (PubMed:17327236)

Tissue Location

Ubiquitous with higher expression in the lung and vascular endothelium

Volume

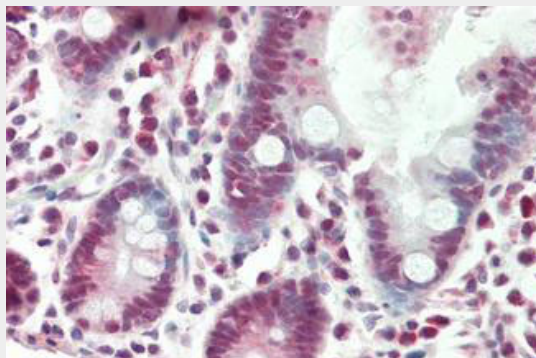
50 µl

SMAD7 Antibody (aa49-317) - 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](#)

SMAD7 Antibody (aa49-317) - Images



Human Small Intestine: Formalin-Fixed, Paraffin-Embedded (FFPE)

SMAD7 Antibody (aa49-317) - Background

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SMAD7 Antibody (aa49-317) - References

Hayashi H.,et al.Cell 89:1165-1173(1997).
Topper J.N.,et al.Proc. Natl. Acad. Sci. U.S.A. 94:9314-9319(1997).
Nakao A.,et al.Nature 389:631-635(1997).
Hagiwara K.,et al.Submitted (SEP-1997) to the EMBL/GenBank/DDBJ databases.
Ota T.,et al.Nat. Genet. 36:40-45(2004).