10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-SMAD6 Antibody (aa323-372)

Rabbit Anti Human Polyclonal Antibody
Catalog # ALS18109

Product Information

Application	WB, IHC-P, E
Primary Accession	O43541
Predicted	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	53497

Additional Information

Gene ID	4091
Alias Symbol	SMAD6
Other Names	SMAD6, AOVD2, HSMAD6, HsT17432, SMAD 6, MADH7, Mothers against DPP homolog 6, SMAD family member 6, MAD homolog 6, MADH6
Target/Specificity	Smad6 antibody detects endogenous levels of Smad6.
Reconstitution & Storage	Immunoaffinity purified
Precautions	Anti-SMAD6 Antibody (aa323-372) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	SMAD6 (HGNC:6772)
Synonyms	MADH6
Function	Acts as an inhibitory regulator of signaling mediated by the TGF-beta superfamily, with strong selectivity toward BMP-dependent pathways (PubMed:10647776, PubMed:10708948, PubMed:10708949, PubMed:16951688, PubMed:22275001, PubMed:30848080, PubMed:9436979, PubMed:9759503). Suppresses IL1R-TLR signaling through its direct interaction with PEL1, preventing NF-kappa-B activation, nuclear translocation 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:30848080, PubMed:9436979). Associates with regulatory elements in target promoter regions (PubMed:16491121). Functions as an adapter protein that recruits ubiquitin ligases, including SMURF1 and, in some contexts, SMURF2,

	promoting proteasomal degradation of signaling components and transcription factors such as RUNX2, TBX6, BMPR1A and MYD88 (PubMed:16299379, PubMed:19561075, PubMed:28847510).
Cellular Location	Nucleus. Cytoplasm {ECO:0000250|UniProtKB:O35182}
Tissue Location	[Isoform B]: Expressed in the brain, heart, ovary, peripheral blood leukocytes, small intestine, spleen, thymus, bone marrow, fetal liver and lymph nodes.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.