

# Anti-Smad2/3 Antibody [4D3]

RT1566



<b>Product Type:</b>	Mouse monoclonal IgG1, primary antibodies
<b>Species reactivity:</b>	Human, Mouse, Rat
<b>Applications:</b>	WB, IP, IF, IHC-P
<b>Molecular Wt:</b>	55-60kDa
<b>Clone number:</b>	4D3

**Description:** Smad proteins, the mammalian homologs of the Drosophila mothers against decapentaplegic (Mad), have been implicated as downstream effectors of TGF $\beta$ /BMP signaling. Smad1 (also designated Madr1 or JV4-1) and Smad5 are effectors of BMP-2 and BMP-4 function, while Smad2 (also designated Madr2 or JV18-1) and Smad3 are involved in TGF $\beta$  and Activin-mediated growth modulation. Smad4 (also designated DPC4) has been shown to mediate all of the above activities through interaction with various Smad family members. Smad6 and Smad7 regulate the response to Activin/TGF $\beta$  signaling by interfering with TGF $\beta$ -mediated phosphorylation of other Smad proteins.

**Immunogen:** peptide

**Positive control:** human thyroid tissue.

**Subcellular location:** Cytoplasm, Nucleus

**Database links:** SwissProt: Q15796 Human

## Recommended Dilutions:

<b>WB</b>	1:1,000
<b>IP</b>	1-2 $\mu$ g per 100-500 $\mu$ g of total protein
<b>IF</b>	1:50-500
<b>IHC-P</b>	1:50-500

**Storage Buffer:** 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

**Storage Instruction:** Store at +4 $^{\circ}$ C

**Purity:** Protein A affinity purified.



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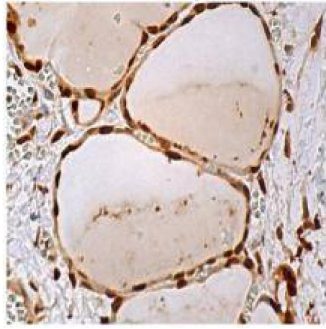
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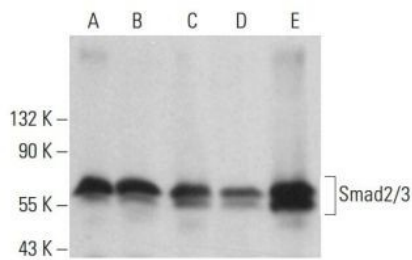
Service mail: support@huabio.cn

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## Images



**Fig1:** Immunoperoxidase staining of formalin fixed, paraffin-embedded human thyroid tissue showing nuclear staining of glandular cells.



**Fig2:** Western blot analysis of Smad2/3 expression in K-562 (A), HEL 92.1.7 (B), PC-12 (C), WEHI-231 (D) and NIH/3T3 (E) whole cell lysates.

**Note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

## Background References

1. Liu, F., et al. 1996. A human Mad protein acting as a BMP-regulated transcriptional activator. *Nature* 381: 620-623.
2. Hoodless, P.A., et al. 1996. Madr1, a Mad-related protein that functions in BMP-2 signaling pathways. *Cell* 85: 489-500.