



# Rabbit Anti-SMAD5 monoclonal antibody, clone TZ10-14 (CABT-L614)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Target</b>	Phospho-Smad5(S463/465)
<b>Immunogen</b>	Recombinant protein
<b>Isotype</b>	IgG
<b>Source/Host</b>	Rabbit
<b>Species Reactivity</b>	Human, Mouse, Rat
<b>Clone</b>	TZ10-14
<b>Purification</b>	Protein A purified.
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	WB, ICC, IHC
<b>Molecular Weight</b>	58 kDa
<b>Cellular Localization</b>	Cytoplasm, Nucleus.
<b>Positive Control</b>	SKOV-3, HepG2, Human liver tissue, mouse liver tissue, mouse brain tissue, human tonsil tissue, human breast carcinoma tissue.
<b>Format</b>	Liquid
<b>Size</b>	100 µl
<b>Buffer</b>	1×TBS (pH7.4), 1% BSA, 40% Glycerol.

<b>Preservative</b>	0.05% Sodium Azide
<b>Storage</b>	Store at +4°C after thawing. Aliquot store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

## BACKGROUND

<b>Introduction</b>	Smad proteins, the mammalian homologs of the <i>Drosophila</i> Mothers against dpp (Mad) have been implicated as downstream effectors of TGF $\beta$ /BMP signaling. Smad1 (also designated Madr1 or JV4-1), Smad5 and mammalian Smad8 (also designated Smad9 or MADH6) are effectors of BMP2 and BMP4 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 family members.
<b>Keywords</b>	DKFZp781C1895;DKFZp781O1323;Dwfc;hSmad5;JV5_1;JV5-1;MAD homolog 5;MAD, mothers against decapentaplegic homolog 5;MADH 5;MADH5;Mothers against decapentaplegic homolog 5;mothers against decapentaplegic, <i>drosophila</i> , homolog of, 5;Mothers against DPP homolog 5;MusMLP;SMA and MAD related protein 5;SMAD 5;SMAD family member 5;SMAD, mothers against DPP homolog 5;Smad5;SMAD5_HUMAN antibody