

## Anti-Phospho-SMAD5 (Ser463, 465) Antibody (2F385)

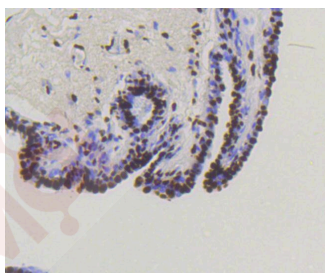
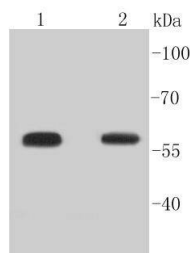
### Product Details

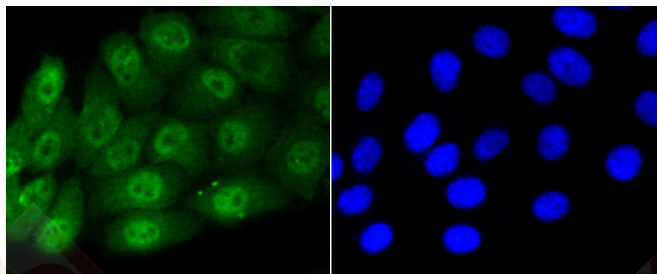
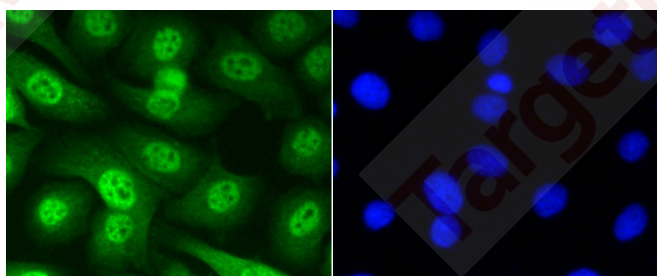
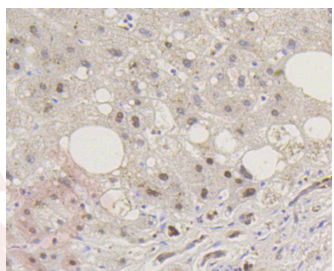
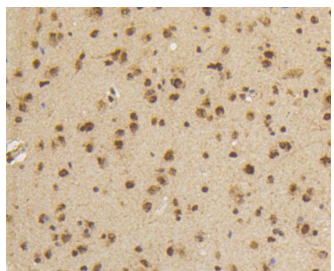
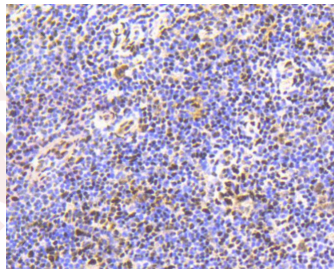
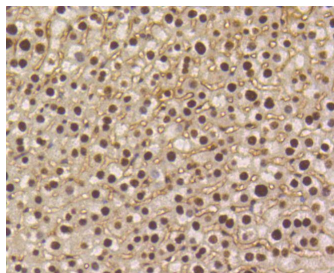
Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 58 kDa.
Clone:	2F385
Purification:	ProA affinity purified

### Applications

#### Verified Activity:

1. Western blot analysis of Phospho-Smad5 (S463/465) on different lysates using anti-Phospho-Smad5 (S463/465) antibody at 1/1,000 dilution. Positive control: Lane 1: Mouse brain, Lane 2: Rat brain.
2. Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using anti-Phospho-Smad5 (S463/465) antibody. Counter stained with hematoxylin.
3. Immunohistochemical analysis of paraffin-embedded mouse liver tissue using anti-Phospho-Smad5 (S463/465) antibody. Counter stained with hematoxylin.
4. Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-Phospho-Smad5 (S463/465) antibody. Counter stained with hematoxylin.
5. Immunohistochemical analysis of paraffin-embedded mouse brain tissue using anti-Phospho-Smad5 (S463/465) antibody. Counter stained with hematoxylin.
6. Immunohistochemical analysis of paraffin-embedded human liver tissue using anti-Phospho-Smad5 (S463/465) antibody. Counter stained with hematoxylin.
7. ICC staining Phospho-Smad5 (S463/465) in SKOV-3 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
8. ICC staining Phospho-Smad5 (S463/465) in HepG2 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.





Application: ICC,IHC,WB

Recommended WB: 1:1000-2000; IHC: 1:50-200; ICC: 1:50-200

## A DRUG SCREENING EXPERT

### Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

### Antigen Details

Immunogen: A synthesized phosphopeptide: human Smad5 around the phosphorylation site of Ser463 and 465

Antigen Species: human

Uniprot ID: Q99717

Synonyms: MAD;SMAD 5;hSmad5;mothers against decapentaplegic homolog 5;SMAD5 (p-S463, 465); SMAD5 (p-Ser463, 465);Mothers against DPP homolog 5;SMAD;DKFZp781C1895;Dwfc;JV5 1; SMA and MAD related protein 5;MAD homolog 5;DKFZp781O1323;p-SMAD5 (Ser463, 465); Phospho-SMAD5 (S463, 465);p-SMAD5 (S463, 465);MusMLP;MADH5;SMAD family member 5; MADH 5

### Research Background

Smad proteins, the mammalian homologs of the Drosophila 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.

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481