

Datasheet for ABIN7265256

**anti-SMAD2 antibody (pSer423, pSer425, pSer465, pSer467)**[Go to Product page](#)

## 7 Images

## Overview

Quantity:	200 µL
Target:	SMAD2
Binding Specificity:	pSer423, pSer425, pSer465, pSer467
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SMAD2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)

## Product Details

Immunogen:	A synthetic phosphorylated peptide around S465 & S467 of human Smad2 (NP_005892.1).
Isotype:	IgG
Characteristics:	Phosphorylated antibody
Purification:	Affinity purification

## Target Details

Target:	SMAD2
Alternative Name:	Smad2 ( <a href="#">SMAD2 Products</a> )
Background:	The protein encoded by this gene belongs to the SMAD, a family of proteins similar to the gene products of the Drosophila gene 'mothers against decapentaplegic' (Mad) and the C. elegans

## Target Details

gene Sma. SMAD proteins are signal transducers and transcriptional modulators that mediate multiple signaling pathways. This protein mediates the signal of the transforming growth factor (TGF)-beta, and thus regulates multiple cellular processes, such as cell proliferation, apoptosis, and differentiation. This protein is recruited to the TGF-beta receptors through its interaction with the SMAD anchor for receptor activation (SARA) protein. In response to TGF-beta signal, this protein is phosphorylated by the TGF-beta receptors. The phosphorylation induces the dissociation of this protein with SARA and the association with the family member SMAD4. The association with SMAD4 is important for the translocation of this protein into the nucleus, where it binds to target promoters and forms a transcription repressor complex with other cofactors. This protein can also be phosphorylated by activin type 1 receptor kinase, and mediates the signal from the activin.

Molecular Weight:

Observed\_MW: 52 kDa/60 kDa

Calculated\_MW: 48 kDa/52 kDa/25 kDa/35 kDa/43 kDa

Gene ID:

4087, 4088

UniProt:

[Q15796](#), [P84022](#)

Pathways:

[Cell Division Cycle](#), [Hormone Transport](#), [Chromatin Binding](#), [Protein targeting to Nucleus](#)

## Application Details

Application Notes:

WB 1:500-1:2000 IHC 1:50-1:200 IF 1:50-1:200

Restrictions:

For Research Use only

## Handling

Format:

Liquid

Concentration:

1 mg/mL

Buffer:

PBS with 0.02 % sodium azide, 50 % glycerol, pH 7.3

Preservative:

Sodium azide

Precaution of Use:

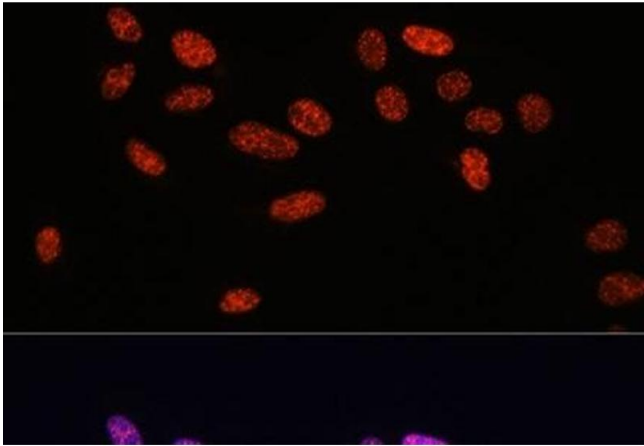
This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage:

-20 °C

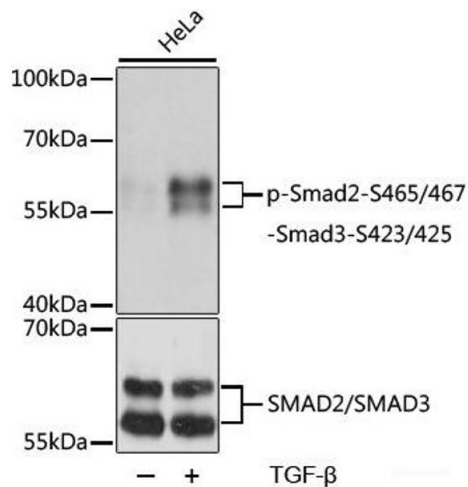
Storage Comment:

Store at -20°C. Avoid freeze / thaw cycles.



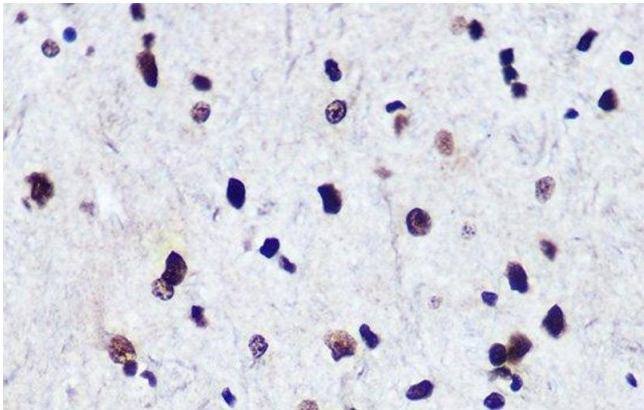
### Immunofluorescence

**Image 1.** Immunofluorescence analysis of U2OS cells using Phospho-Smad2(S465/467)/Smad3(S423/425) Polyclonal Antibody at dilution of 1:100. Blue: DAPI for nuclear staining.



### Western Blotting

**Image 2.** Western blot analysis of extracts of HeLa cells using Phospho-Smad2(S465/467)/Smad3(S423/425) Polyclonal Antibody at dilution of 1:1000.



### Immunohistochemistry (Paraffin-embedded Sections)

**Image 3.** Immunohistochemistry of paraffin-embedded Rat brain using Phospho-Smad2(S465/467)/Smad3(S423/425) Polyclonal Antibody at dilution of 1:100 (40x lens).

Please check the [product details page](#) for more images. Overall 7 images are available for ABIN7265256.