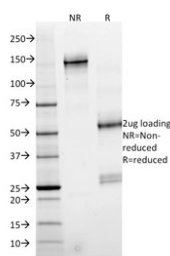


## SMAD4 Antibody [clone SMAD4/2524] (V7939)

Catalog No.	Formulation	Size
V7939-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V7939-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V7939SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

[Bulk quote request](#)

<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human
<b>Format</b>	Purified
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal (mouse origin)
<b>Isotype</b>	Mouse IgG2a, kappa
<b>Clone Name</b>	SMAD4/2524
<b>Purity</b>	Protein G affinity chromatography
<b>UniProt</b>	Q13485
<b>Applications</b>	ELISA (order BSA-free Format For Coating) :
<b>Limitations</b>	This SMAD4 antibody is available for research use only.



SDS-PAGE analysis of purified, BSA-free SMAD4 antibody (clone SMAD4/2524) as confirmation of integrity and purity.

## Description

Signaling from the ligand-activated membrane receptor serine/threonine kinases to nuclear targets is mediated by a set of evolutionarily conserved proteins known as DPC4. Upon ligand binding, the receptors of the TGF- family phosphorylate

SMAD proteins (SMAD1 and SMAD2). These proteins then move into the nucleus, where they activate transcription. To carry out this function, the receptor activated SMAD1 and 2 require association with the product of deleted in pancreatic carcinoma, locus 4 (DPC4), also known as SMAD4. SMAD4/DPC4 is also implicated as a tumor suppressor, since it is inactivated in more than half of pancreatic carcinomas and to a lesser extent in a variety of other cancers. SMAD4 is absent in approximately 80% of pancreatic adenocarcinoma, but rarely in endometrial, colorectal, ovarian, lung, breast adenocarcinomas, and malignant melanom. SMAD4 is an important marker for confirming a diagnosis of pancreatic adenocarcinoma. Patients with pancreatic adenocarcinomas with SMAD4 protein expression had significantly longer survival than SMAD4 negative patients.

## **Application Notes**

Optimal dilution of the SMAD4 antibody should be determined by the researcher.

## **Immunogen**

Recombinant full length human protein was used as the immunogen for this SMAD4 antibody.

## **Storage**

Store the SMAD4 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).