

Anti-SMAD4 Antibody [SMAD/6309R] - BSA and Azide free (A278615)

Specifications:

Name:	Anti-SMAD4 Antibody [SMAD/6309R] - BSA and Azide free
Description:	Recombinant rabbit monoclonal [SMAD/6309R] antibody to SMAD4.
Specificity:	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- β 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. The lack of SMAD4 expression is present in approximately 80% of cases of pancreatic adenocarcinoma, but rarely in endometrial (0%), colorectal (0%), ovarian (3%), lung (0%), breast (2%) adenocarcinomas, and malignant melanoma (4%). SMAD4 is an important marker for confirming a diagnosis of pancreatic adenocarcinoma.
Applications:	IHC-P
Recommended Dilutions:	IHC-P: 1-2 μ g/ml
Reactivity:	Human, Mouse, Rat
Immunogen:	Recombinant full-length human SMAD4 protein.
Host:	Rabbit
Clonality:	Monoclonal
Clone ID:	SMAD/6309R
Isotype:	IgG
Conjugate:	Unconjugated
Purification:	Protein A/G chromatography.
Concentration:	1 mg/ml
Product Form:	Liquid
Formulation:	Supplied in 10mM Phosphate Buffered Saline; without Sodium Azide and carrier free.
Storage:	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
General Notes:	This monoclonal antibody is also available in a different formulation with BSA and Sodium Azide - Anti-SMAD4 Antibody [SMAD/6309R] (A278027).

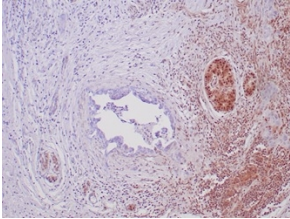
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Specifications continued:

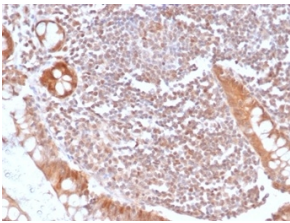
Disclaimer:

This product is for research use only. It is not intended for diagnostic or therapeutic use.

Images:



Immunohistochemical analysis, using Anti-SMAD4 Antibody [SMAD/6309R], showing loss of SMAD4 expression in pancreatic ductal adenocarcinoma. Note adjacent benign ductal epithelium and background stroma as internal control showing positive / retained SMAD4 staining.



Immunohistochemical analysis of formalin-fixed, paraffin-embedded human small intestine tissue using Anti-SMAD4 Antibody [SMAD/6309R].