

Product datasheet for AP09377PU-N

SMAD4 Rabbit Polyclonal Antibody

Product data:

Product Type: Primary Antibodies

Applications: ELISA, WB

Recommended Dilution: ELISA: 1/15,000 - 1/60,000.

Western Blot: 1/500 - 1/2,000.

Reactivity: Human, Mouse, Xenopus

Host: Rabbit **IgG** Isotype:

Clonality: Polyclonal

Synthetic peptide corresponding to a region near the carboxy terminus of human SMAD4 Immunogen:

protein

Specificity: This antibody is directed against SMAD4 protein.

Formulation: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 containing 0.01% (w/v) Sodium

Azide

State: Aff - Purified State: Liquid purified Ig

Concentration: lot specific

Purification: Affinity chromatography

Conjugation: Unconjugated

Store the antibody at -20°C. Storage:

Avoid repeated freezing and thawing.

Stability: Shelf life: one year from despatch.

Gene Name: SMAD family member 4 Database Link: Entrez Gene 4089 Human

Q13485



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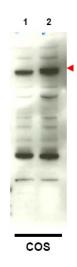
Background:

SMAD4 (also known as Mothers against decapentaplegic homolog 4, Mothers against DPP homolog 4, deletion target in pancreatic carcinoma 4 and hSMAD4) is a common mediator of signal transduction by TGF-beta (transforming growth factor), but is also involved in cancer development and metastases as a tumor suppressor. SMAD4 promotes binding of the SMAD2/SMAD4/FAST-1 complex to DNA and provides an activation function required for SMAD1 or SMAD2 to stimulate transcription. SMAD4 may form trimers with receptor-regulated SMAD (R-SMAD) and interacts with ATF2, COPS5, DACH1, MSG1, SKI and TRIM33. In the absence of ligand SMAD4 is found in the cytoplasm, but when complexed with R-SMAD, translocates to the nucleus. Defects in SMAD4 are a cause of pancreatic carcinoma and juvenile polyposis syndrome (JPS), a syndrome in which patients are at risk for developing gastrointestinal cancers.

Synonyms:

SMAD family member 4, SMAD-4, SMAD 4, MADH4, MAD homolog 4, DPC4

Product images:



Western blot using affinity purified anti-SMAD4 to detect over-expressed SMAD4 in transfected COS cells (lane 2). Lane 1 contains lysate from mock transfected COS cells. A doublet band is seen in the SMAD4 transfected lysate with the upper band (arrowhead) representing SMAD4 and the lower band being non-specific staining. The membrane was probed with tprimary antibody at a 1:1,000 dilution.