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39-1051: Anti-Smad4 (DPC4) Monoclonal Antibody (Clone: DCS-46) (Discontinued)

Clonality :	Monoclonal
Clone Name :	DCS-46
Application :	ICC,WB
Reactivity :	Human
Gene :	SMAD4
Gene ID :	4089
Uniprot ID :	Q13485
Alternative Name :	Mothers against decapentaplegic homolog 4; MAD homolog 4; Mothers against DPP homolog 4; SMAD family member 4; SMAD 4; Smad4; Smad4; Madh4
Isotype :	Mouse IgG1
Immunogen Information :	Recombinant human Smad4(DPC4).

Description

SMAD4 plays a pivotal role in signal transduction of the transforming growth factor beta superfamily cytokines by mediating transcriptional activation of target genes. Smad4 signalling in T cells is required for suppression of gastrointestinal cancer. Mutational inactivation of SMAD4 causes TGF-beta unresponsiveness and gave a basis for understanding the physiologic role of this gene in tumorigenesis. Mutations in DPC4(SMAD4) cause juvenile polyposis syndrome, but only account for a minority of cases.

Product Info

Amount :	100 µg/vial
Purification :	Ascites
Content :	Mouse ascites fluid, 1.2% sodium acetate, 2mg BSA, with 0.01mg NaN3 as preservative. Reconstitute : Add 1ml of PBS buffer will yield a concentration of 100ug/ml.
Storage condition :	At -20˚C for one year. After reconstitution, at 4˚C for one month. It can also be aliquotted and stored frozen at -20˚C for a longer time. Avoid repeated freezing and thawing.

Application Note

Western blot : 2-4µg/ml; Immunocytochemistry : 1µg/ml

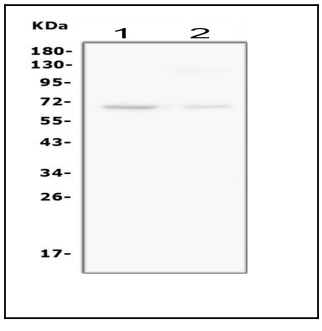

Figure 1. Western blot analysis of SMAD4 using anti-SMAD4 antibody. Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50 µg of sample under reducing conditions. Lane 1: rat C6 whole cell lysate, Lane 2: mouse Neuro-2a whole cell lysate.

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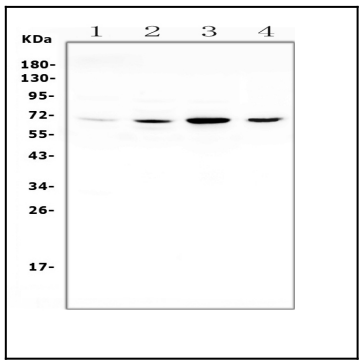

Figure 2. Western blot analysis of SMAD4 using anti-SMAD4 antibody (39-1051).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50Î¼g of sample under reducing conditions. Lane 1: human HepG2 whole cell lysate, Lane 2: human HEK293 whole cell lysate, Lane 3: human COLO-320 whole cell lysate, Lane 4: human THP-1 whole cell lysate.