



Product Information Sheet

Monoclonal Anti-Smad4 (DPC4)

Catalogue No. MA1089

Lot No. 08A12

Clone: IMD-89

Ig type: mouse IgG1

Size: 100µg/vial

Specificity

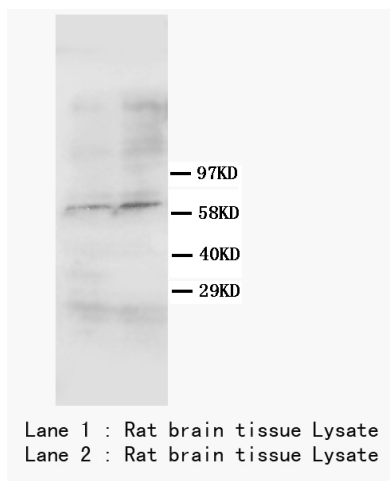
Human.

No cross reactivity with other proteins.

Recommended application

Western blot

Immunocytochemistry



Immunogen

Recombinant human Smad4 (DPC4).

Purification

Purified by the goat anti-mouse IgG affinity chromatography.

Application

Western blot

At 2-4µg/ml with the appropriate system to detect Smad4 in cells and tissues.

Immunocytochemistry

Suitable

Other applications have not been tested.

Optimal dilutions should be determined by end user.

Formulation

Lyophilized from 1.2% sodium acetate, with 2mg BSA and 0.01mg NaN₃ as preservative.

Reconstitution

1.2% sodium acetate or neutral PBS. If 1ml of PBS is used, the antibody concentration will be 100µg/ml.

Storage

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 longer time.

To reorder contact us at:

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BACKGROUND

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.

REFERENCE

1. Kim, B.-G.; Li, C.; Qiao, W.; Mamura, M.; Kasprzak, B.; Anver, M.; Wolfrum, L.; Hong, S.; Mushinski, E.; Potter, M.; Kim, S.-J.; Fu, X.-Y.; Deng, C.; Letterio, J. J. : Smad4 signalling in T cells is required for suppression of gastrointestinal cancer. *Nature* 441: 1015-1019, 2006. Note: Erratum: *Nature* 444: 780 only, 2006.
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3. Howe, J. R.; Roth, S.; Ringold, J. C.; Summers, R. W.; Jarvinen, H. J.; Sistonen, P.; Tomlinson, I. P. M.; Houlston, R. S.; Bevan, S.; Mitros, F. A.; Stone, E. M.; Aaltonen, L. A. : Mutations in the SMAD4/DPC4 gene in juvenile polyposis. *Science* 280: 1086-1088, 1998.