

Anti-SMAD4 antibody

Cat. No.	ml220124
Package	25 µl/100 µl/200 µl
Storage	-20°C, pH7.4 PBS, 0.05% NaN ₃ , 40% Glycerol

Product overview

Description	Anti-SMAD4 rabbit polyclonal antibody
Applications	ELISA, WB, IHC
Immunogen	Fusion protein of human SMAD4
Reactivity	Human, Mouse, Rat
Content	0.5 mg/ml
Host species	Rabbit
Ig class	Immunogen-specific rabbit IgG
Purification	Antigen affinity purification

Target information

Symbol	SMAD4
Full name	SMAD family member 4

Synonyms JIP, DPC4, MADH4, MYHRS

Swissprot Q13485

Target Background

This gene encodes a member of the Smad family of signal transduction proteins. Smad proteins are phosphorylated and activated by transmembrane serine-threonine receptor kinases in response to TGF-beta signaling. The product of this gene forms homomeric complexes and heteromeric complexes with other activated Smad proteins, which then accumulate in the nucleus and regulate the transcription of target genes. This protein binds to DNA and recognizes an 8-bp palindromic sequence (GTCTAGAC) called the Smad-binding element (SBE). The Smad proteins are subject to complex regulation by post-translational modifications. Mutations or deletions in this gene have been shown to result in pancreatic cancer, juvenile polyposis syndrome, and hereditary hemorrhagic telangiectasia syndrome.

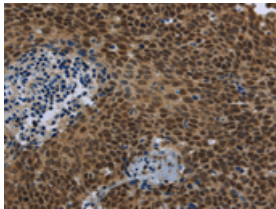
Applications

Immunohistochemistry

Predicted cell location: Nucleus and Cytoplasm

Positive control: Human cervical cancer

Recommended dilution: 50-200

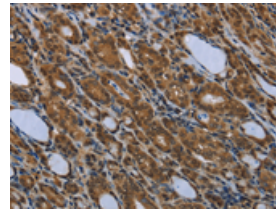


The image is immunohistochemistry of paraffin-embedded Human cervical cancer tissue using ml220124(SMAD4 Antibody) at dilution 1/40. (Original magnification: ×200)

Predicted cell location: Nucleus and Cytoplasm

Positive control: Human thyroid cancer

Recommended dilution: 50-200



The image is immunohistochemistry of paraffin-embedded Human thyroid cancer tissue using ml220124(SMAD4 Antibody) at dilution 1/40. (Original magnification: ×200)

Western blotting

Predicted band size: 60 kDa

Positive control: Human liver cancer tissue and Hela cells

Recommended dilution: 200-500

Gel: 10% SDS-PAGE

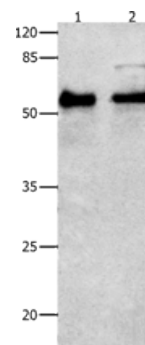
Lysate: 30 µg

Lane 1-2: Human liver cancer tissue, Hela cells

Primary antibody: ml220124(SMAD4 Antibody) at dilution 1/150

Secondary antibody: Goat anti rabbit IgG at 1/8000 dilution

Exposure time: 2 minutes



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订购热线: 4008-898-798

ELISA

Recommended dilution: 1000-2000

联系电话: 4008-898-798, 021-61725725

联系QQ: 2881505695, 2881505696

邮箱: mlbio_cn@yeah.net

网址: www.mlbio.cn