

Recombinant Human Smad4 protein ab81764

3 References 画像数 2

製品の詳細

製品名	Recombinant Human Smad4 protein
精製度	> 90 % SDS-PAGE.
発現系	Escherichia coli
タンパク質長	Full length protein
Animal free	No
由来	Recombinant
生物種	Human
配列	<p>MGSSHHHHHH SSGLVPRGSH MDNMSITNTP</p> <p>TSNDACLSIV HSLMCHRQGG ESETFAKRAI</p> <p>ESLVKKLKEK KDELDSLITA ITTNGAHPK</p> <p>CVTIQRTLKG RLQVAGRKGF PHVIYARLWR</p> <p>WPDHLKKNELK HVKYCQYAFD LKCDSCVNP</p> <p>YHYERVVSPG IDLSGLTLQS NAPSSMMVKD</p> <p>EYVHDFEGQP SLSTEGHSIQ TIQHPPSNRA</p> <p>STETYSTPAL LAPSESNATS TANFPNIPVA</p> <p>STSQPASILG GSHSEGLLQI ASGPQPGQQQ</p> <p>NGFTGQPATY HHNSTTTWTG SRTAPYTPNL</p> <p>PHHQNGHLQH HPPMPHPGH YWPVHNELAF</p> <p>QPPISNHPAP EYWCSIAYFE MDVQVGETFK</p> <p>VPSSCPIVTV DGYVDPGGD RFCLGQLSNV</p> <p>HRTEAIERAR LHIGKGVQLE CKGEDVWVR</p> <p>CLSDHAVFVQ SYLDREAGR APGDAVHKIY</p> <p>PSAYIKVFDL RQCHRQMQQQ AATAQAAAAA</p> <p>QAAAVAGNIP GPGSVGGIAP AISLSAAAGI</p> <p>GVDDLRLRCI LRMSFVKGWG PDYPRQSIKE</p> <p>TPCWIEIHLH RALQLLDEVL HTMPIADPQP LD</p>

特性

Our **Abpromise guarantee** covers the use of **ab81764** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

アプリケーション SDS-PAGE

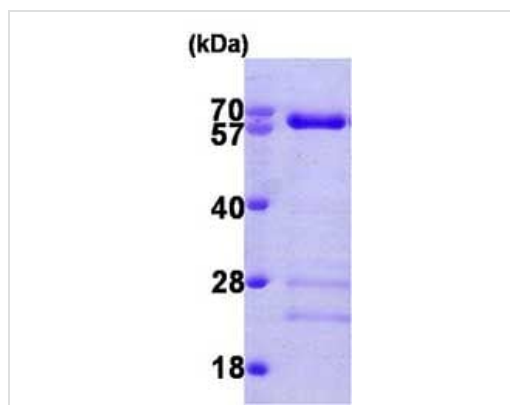
	Western blot
	Electrophoretic Mobility Shift Assay
製品の状態	Liquid
前処理および保存	
保存方法および安定性	<p>Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.</p> <p>pH: 8.00</p> <p>Constituents: 0.316% Tris HCl, 20% Glycerol (glycerin, glycerine)</p>
関連情報	
機能	<p>Common SMAD (co-SMAD) is the coactivator and mediator of signal transduction by TGF-beta (transforming growth factor). Component of the heterotrimeric SMAD2/SMAD3-SMAD4 complex that forms in the nucleus and is required for the TGF-mediated signaling. Promotes binding of the SMAD2/SMAD4/FAST-1 complex to DNA and provides an activation function required for SMAD1 or SMAD2 to stimulate transcription. Component of the multimeric SMAD3/SMAD4/JUN/FOS complex which forms at the AP1 promoter site; required for synergistic transcriptional activity in response to TGF-beta. May act as a tumor suppressor.</p>
関連疾患	<p>Defects in SMAD4 are a cause of pancreatic cancer (PNCA) [MIM:260350].</p> <p>Defects in SMAD4 are a cause of juvenile polyposis syndrome (JPS) [MIM:174900]; also known as juvenile intestinal polyposis (JIP). JPS is an autosomal dominant gastrointestinal hamartomatous polyposis syndrome in which patients are at risk for developing gastrointestinal cancers. The lesions are typified by a smooth histological appearance, predominant stroma, cystic spaces and lack of a smooth muscle core. Multiple juvenile polyps usually occur in a number of Mendelian disorders. Sometimes, these polyps occur without associated features as in JPS; here, polyps tend to occur in the large bowel and are associated with an increased risk of colon and other gastrointestinal cancers.</p> <p>Defects in SMAD4 are a cause of juvenile polyposis/hereditary hemorrhagic telangiectasia syndrome (JP/HHT) [MIM:175050]. JP/HHT syndrome phenotype consists of the coexistence of juvenile polyposis (JIP) and hereditary hemorrhagic telangiectasia (HHT) [MIM:187300] in a single individual. JIP and HHT are autosomal dominant disorders with distinct and non-overlapping clinical features. The former, an inherited gastrointestinal malignancy predisposition, is caused by mutations in SMAD4 or BMPR1A, and the latter is a vascular malformation disorder caused by mutations in ENG or ACVRL1. All four genes encode proteins involved in the transforming-growth-factor-signaling pathway. Although there are reports of patients and families with phenotypes of both disorders combined, the genetic etiology of this association is unknown.</p> <p>Defects in SMAD4 may be a cause of colorectal cancer (CRC) [MIM:114500].</p>
配列類似性	<p>Belongs to the dwarfin/SMAD family.</p> <p>Contains 1 MH1 (MAD homology 1) domain.</p> <p>Contains 1 MH2 (MAD homology 2) domain.</p>
ドメイン	<p>The MH1 domain is required for DNA binding.</p> <p>The MH2 domain is required for both homomeric and heteromeric interactions and for transcriptional regulation. Sufficient for nuclear import.</p>
翻訳後修飾	<p>Monoubiquitinated on Lys-519 by E3 ubiquitin-protein ligase TRIM33. Monoubiquitination hampers its ability to form a stable complex with activated SMAD2/3 resulting in inhibition of TGF-</p>

beta/BMP signaling cascade. Deubiquitination by USP9X restores its competence to mediate TGF-beta signaling.

細胞内局在

Cytoplasm. Nucleus. Cytoplasmic in the absence of ligand. Migrates to the nucleus when complexed with R-SMAD.

画像



ab81764 on 15% SDS-PAGE (3μg)

SDS-PAGE - Recombinant Human Smad4 protein
(ab81764)



Western blot - Recombinant Human Smad4 protein
(ab81764)

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