

Full-Length

SMAD4 (Human) Recombinant Protein (P01)

Catalog # H00004089-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human SMAD4 full-length ORF (AAH02379, 1 a.a. - 552 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MDNMSITNTPTSNDACLSVHSLMCHRQGGSETFAKRAIESLVKKLKEKKDELDSLITAITSGAH
PSKCVTIQRTLDGRLQVAGRKGFPVVIARLWRWPDHLKNEKHKVYCYAFDLKCDSVCVNPY
HYERVVSPGIDLSGLTLQSNAPSSMMVKDEYVHDFEGQPSLSTEGHSIQTIQHPPSNRASTETYST
PALLAPSESNAATSTANFPNIPVASTSQPASILGGSHSEGLLQIASGPQPGQQQNGFTGQPATYHHN
STTTWTGSRTAPYTPNLPHHQNGHLQHHPMPPPHPGHYWPVHNELAFQPPISNHPAPEYWCSIA
YFEMDVQVGETFKVPSSCPMTVDGYVDPSSGDRFCLGQLSNVHRTEAIERARLHIGKGVQLECK
GEGDVWVRCLSDHAVFVQSYLDREAGRAPGDAVHKIYPSAYKVFDLRQCHRQMQQQAATAQ
AAAAAQAQAAVAGNIPGPGSVGGIAPASLSAAAGIGVDDLRLRLCILRMSFVKGWGPDYPRQSIKET
PCWIEIHLHRALQLLDEVLHTMPIADPQPLD

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

86.46

Interspecies Antigen Sequence

Mouse (98); Rat (99)

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — SMAD4

Entrez GeneID	4089
GeneBank Accession#	BC002379
Protein Accession#	AAH02379
Gene Name	SMAD4
Gene Alias	DPC4, JIP, MADH4
Gene Description	SMAD family member 4
Omim ID	174900 175050 600993
Gene Ontology	Hyperlink
Gene Summary	mothers against decapentaplegic homolog 4 OTTHUMP00000163548 SMAD
Other Designations	MAD, mothers against decapentaplegic homolog 4 OTTHUMP00000163548 SMAD, mothers against DPP homolog 4 deleted in pancreatic carcinoma locus 4 mothers against decapentaplegic homolog 4 mothers against decapentaplegic, Drosophila, homolog of, 4

Publication Reference

- [Transforming Growth Factor- \$\beta\$ -Induced Reactivation of Epstein-Barr Virus Involves Multiple Smad-binding Elements Cooperatively Activating Expression of the Latent-Lytic Switch BZLF1 Gene.](#)

Iempridee T, Das S, Xu I, Mertz JE.

J Virol 2011 May; 85:7836.

Application: EMSA, Recombinant protein

Pathway

- [Adherens junction](#)
- [Cell cycle](#)
- [Chronic myeloid leukemia](#)
- [Colorectal cancer](#)
- [Pancreatic cancer](#)
- [Pathways in cancer](#)
- [TGF-beta signaling pathway](#)
- [Wnt signaling pathway](#)

Disease

- [Adenocarcinoma](#)
- [Adenomatous Polyposis Coli](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Chromosome Deletion](#)
- [Cleft Lip](#)
- [Cleft Palate](#)

- [Colon cancer](#)
- [Colonic Neoplasms](#)
- [Colorectal Neoplasms](#)
- [Diabetes Mellitus](#)
- [Diabetic Nephropathies](#)
- [Disease Models](#)
- [Edema](#)
- [Gastrointestinal Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Hemochromatosis](#)
- [Hypertension](#)
- [Intestinal Polyposis](#)
- [Intestinal Polyps](#)
- [Kidney Failure](#)
- [Liver Cirrhosis](#)
- [Microsatellite Instability](#)
- [Neoplasms](#)
- [Neoplastic Syndromes](#)
- [Obesity](#)
- [Osteoporosis](#)
- [Ovarian Failure](#)
- [Pancreatic cancer](#)
- [Pancreatic Neoplasms](#)
- [Peutz-Jeghers Syndrome](#)
- [Polycystic Ovary Syndrome](#)
- [Polyps](#)
- [Precancerous Conditions](#)

- [Puberty](#)
- [Stomach Neoplasms](#)
- [Telangiectasia](#)
- [Testicular Neoplasms](#)
- [Thrombophilia](#)
- [Thyroid Neoplasms](#)
- [Tobacco Use Disorder](#)