

Recombinant Rat SMAD3 Protein, His tagged

Cat. No. SMAD3-5608R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat SMAD family member 3 Protein with His tag was expressed in HEK293.
Species	Rat
Source	HEK293
Description	Enables several functions, including DNA-binding transcription factor activity; RNA polymerase II transcription regulatory region sequence-specific DNA binding activity; and beta-catenin binding activity. Involved in several processes, including cell surface receptor protein serine/threonine kinase signaling pathway; positive regulation of hydrolase activity; and regulation of gene expression. Located in nucleus. Part of transcription regulator complex. Used to study pre-malignant neoplasm. Human ortholog(s) of this gene implicated in Loeys-Dietz syndrome 3; Lynch syndrome; and pancreatic cancer. Orthologous to human SMAD3 (SMAD family member 3).
Molecular Mass	49 kDa
AA Sequence	HHHHHHHHMSSILPFTPIVKRLLGWKKGEQNGQEEKWCEKAVKSLVKKLKKTGQL DELEKAITTQNVNTKCITIPRSLDGRLQVSHRKGLPHVIYCRLWRWPDLHSHHELRA MELCEFAFNMKKDEVCVNPHYHYQRVETPVLPPVLVPRHTEIPAEFPPLDDYSHSIPE NTNFPAGIEPQSNIPETPPPGYLSEGETSDHQMNHSM DAGSPNLSPNPMSPAHN NLDLQPVTYCEPAFWCSISYYELNQRVGETFHASQPSMTVDGFTDPSNSERFCLGL LSNVNRNAAVELTRRHIGRGVRLYYIGGEVFAECLSDSAIFVQSPNCNQRYGWHPA

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TVCKIPPGCNLKIFNNQEFAALLAQSVNQGFEAVYQLTRMCTIRMSFVKGWGAEYR
RQTVTSTPCWIELHLNGLQWLDKVLTMGSPSIRCSSVS

Endotoxin < 1 EU/μg by LAL.

Purity > 50 % by SDS-PAGE

Storage Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Storage Buffer Sterile PBS, pH 7.4

Concentration Target Protein ~0.2 mg/mL

GENE INFORMATION

Gene Name *Smad3* SMAD family member 3 [*Rattus norvegicus* (Norway rat)]

Official Symbol *SMAD3*

Synonyms SMAD3; SMAD family member 3; mothers against decapentaplegic homolog 3; mad3; SMAD 3; MAD homolog 3; mothers against DPP homolog 3; MAD (mothers against decapentaplegic, *Drosophila*) homolog 3; Madh3;

Gene ID 25631

mRNA Refseq NM_013095

Protein Refseq NP_037227

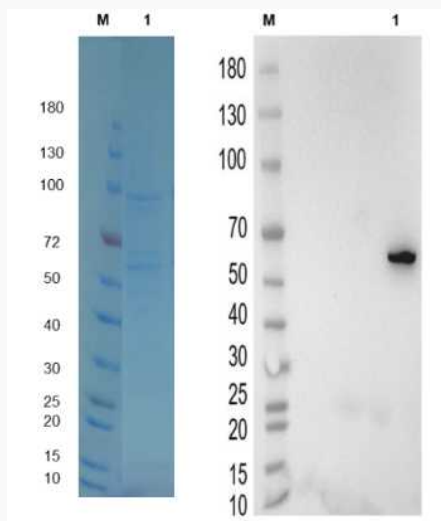
UniProt ID P84025

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**Reducing 12 % SDS-
PAGE (CBB stained)
and WB (Anti-His
Mouse Monoclonal
antibody) analysis
profiles of purified
SMAD3.**



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