

Product datasheet

Recombinant human PPM1A protein ab51205

[1 Image](#)

Description

Product name	Recombinant human PPM1A protein
Biological activity	Specific activity: > 8,000units/mg of PPM1A. Unit Definition - one unit will hydrolyze 1 nanomole of p-nitrophenylphosphatate per minute at pH 7.4 at 37°C using 10mM of substrate.
Purity	> 95 % SDS-PAGE. ab51205 was purified by conventional column chromatography.
Endotoxin level	< 1.000 Eu/μg
Expression system	Escherichia coli
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human

Sequence	MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWILMGAF LDKPKMEKHN AQQQGNGRLY GLSSMQGWRV EMEDAHTAVI GLPSGLESWS FFAVYDGHAG SQVAKYCCEH LLDHITNNQD FKGSAGAPSV ENVKNGIRTG FLEIDEHMRV MSEKKHGADR SGSTAVGVLI SPQHTYFINC GDSRGLLCRN RKVHFFTQDH KPSNPLEKER IQNAGGSVMI QRVNGSLAVS RALGDFDYKC VHGKGPTEQL VSPEPEVHDI ERSEEDDQFI ILACDGWDV MGNEELCDFV RSRLEVTDDL EKVCNEVVDT CLYKGSRDNM SVILICFPNA PKVSPEAVKK EAELDKYLEC RVEEIKKQG EGVPDLVHVM RTLASENIPS LPPGGELASK RNVIEAVYNR LNPYKNDDTD STSTDDMW
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Amino acids 1 to 382

Specifications

Our **Abpromise guarantee** covers the use of **ab51205** in the following tested applications.

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

Applications SDS-PAGE

Functional Studies

Mass spectrometry

MALDI-TOF

Form

Liquid

Preparation and Storage

Stability and Storage

Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.

pH: 7.50

Constituents: 0.0308% DTT, 0.158% Tris HCl, 20% Glycerol (glycerin, glycerine), 0.29% Sodium chloride, 0.0126% Manganese chloride

This product is an active protein and may elicit a biological response in vivo, handle with caution.

General Info

Function

Enzyme with a broad specificity. Negatively regulates TGF-beta signaling through dephosphorylating SMAD2 and SMAD3, resulting in their dissociation from SMAD4, nuclear export of the SMADs and termination of the TGF-beta-mediated signaling.

Sequence similarities

Belongs to the PP2C family.

Cellular localization

Nucleus.

Images



10% SDS-PAGE gel loaded with ab51205, PP2C alpha protein (His tag).

Predicted molecular weight 46.6 kDa.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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