abcam

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 AQGQGNGLRY
GLSSMQGWRV EMEDAHTAVI GLPSGLESWS
FFAVYDGHAG SQVAKYCCEH LLDHITNNQD
FKGSAGAPSV ENVKNGIRTG FLEIDEHMRV
MSEKKHGADR SGSTAVGVLI SPQHTYFINC
GDSRGLLCRN RKVHFFTQDH KPSNPLEKER
IQNAGGSVMI QRVNGSLAVS RALGDFDYKC
VHGKGPTEQL VSPEPEVHDI ERSEEDDQFI
ILACDGIWDV MGNEELCDFV RSRLEVTDDL
EKVCNEVVDT CLYKGSRDNM SVILICFPNA
PKVSPEAVKK EAELDKYLEC RVEEIIKKQG
EGVPDLVHVM RTLASENIPS LPPGGELASK
RNVIEAVYNR LNPYKNDDTD STSTDDMW

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

1

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

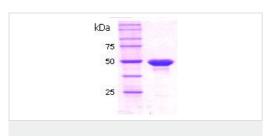
dephosphorylating SMAD2 and SMAD3, resulting in their dissociation from SMAD4, nuclear

export of the SMADs and termination of the TGF-beta-mediated signaling.

Sequence similarities Belongs to the PP2C family.

Cellular localization Nucleus.

Images



SDS-PAGE - Recombinant human PPM1A protein

(ab51205)

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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