

Datasheet for ABIN2868702  
**anti-PP5 antibody (Atto 488)**



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3 Images

## Overview

Quantity:	100 µg
Target:	PP5 (PPP5C)
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This PP5 antibody is conjugated to Atto 488
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunocytochemistry (ICC)

## Product Details

Immunogen:	Full length human PP5 protein
Clone:	12F7
Isotype:	IgG1
Specificity:	Detects ~58 kDa.
Cross-Reactivity:	Human
Purification:	Protein G Purified

## Target Details

Target:	PP5 (PPP5C)
Alternative Name:	PP5 ( <a href="#">PPP5C Products</a> )
Background:	Proteins in this family participate in pathways regulated by reversible phosphorylation at serine

## Target Details

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and threonine residues, potentially playing a role in the regulation of cell growth and differentiation. PP5 or PPT is predominantly a nuclear protein and interacts with CDC16 and CDC27. It is found in association with several proteins that influence intracellular signaling-cascades initiated by hormones (glucocorticoids) or cellular stress (hypoxia, oxidative stress and DNA Damage). It phosphorylates serine residues of skeletal muscle phosphorylase and histone H1. It may also be involved in mitosis and RNA biogenesis regulation (1,2).

Gene ID: 5536

NCBI Accession: [NP\\_006238](#)

UniProt: [P53041](#)

## Application Details

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Application Notes:

- WB (1:1000)
- ICC/IF (1:100)
- optimal dilutions for assays should be determined by the user.

Comment: 1 µg/ml of ABIN2868702 was sufficient for detection of PP5 in 15 µg of human A431 lysates by ECL analysis using Goat anti-mouse IgG:HRP as the secondary antibody.

Restrictions: For Research Use only

## Handling

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Format: Liquid

Concentration: 1 mg/mL

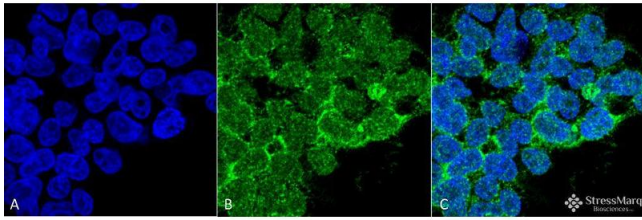
Buffer: PBS pH 7.4, 50 % glycerol, 0.09 % sodium azide, Storage buffer may change when conjugated

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

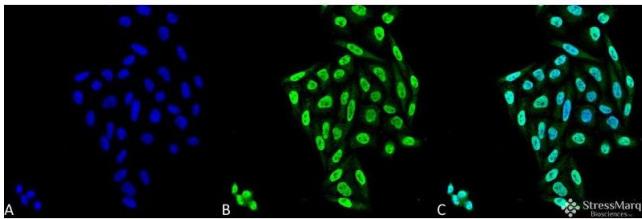
Storage: 4 °C

Storage Comment: Conjugated antibodies should be stored at 4°C



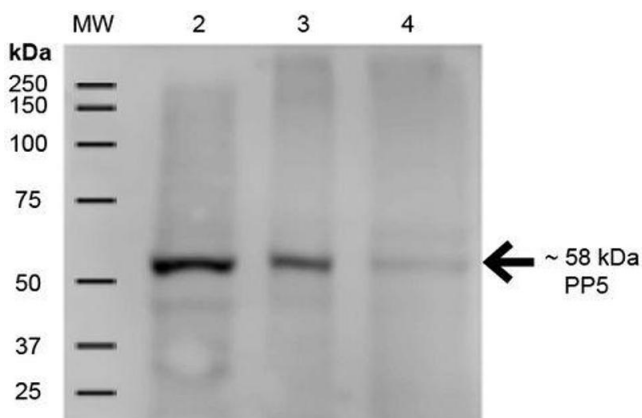
### Immunofluorescence (fixed cells)

**Image 1.** Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-PP5 Monoclonal Antibody, Clone 12F7 . Tissue: HEK293. Species: Human. Fixation: 2% Formaldehyde for 20 min at RT. Primary Antibody: Mouse Anti-PP5 Monoclonal Antibody at 1:50 for 1 hour at RT. Secondary Antibody: Alexa Fluor 488 Goat Anti-Mouse (green) at 1:100 for 1 hour at RT. Counterstain: DAPI (blue) nuclear stain. Magnification: 63x.



### Immunofluorescence (fixed cells)

**Image 2.** Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-PP5 Monoclonal Antibody, Clone 12F7 . Tissue: Cervical Cancer cell line (HeLa). Species: Human. Fixation: 4% Formaldehyde for 15 min at RT. Primary Antibody: Mouse Anti-PP5 Monoclonal Antibody at 1:100 for 60 min at RT. Secondary Antibody: Goat Anti-Mouse ATTO 488 at 1:100 for 60 min at RT. Counterstain: DAPI (blue) nuclear stain at 1:5000 for 5 min RT. Localization: Nucleus, Cytoplasm. Magnification: 40X.



### Western Blotting

**Image 3.** Western Blot analysis of Human A431, HEK293, and Jurkat cell lysates showing detection of ~58 kDa PP5 protein using Mouse Anti-PP5 Monoclonal Antibody, Clone 12F7 . Lane 1: MW Ladder. Lane 2: Human A431 (15 µg). Lane 3: Human HEK293 (15 µg). Lane 4: Human Jurkat (15 µg). Load: 15 µg. Block: 5% Skim Milk for 1 hour at RT. Primary Antibody: Mouse Anti-PP5 Monoclonal Antibody at 1:500 for 1 hour at RT. Secondary Antibody: Goat Anti-Mouse IgG: HRP at 1:200 for 1 hour at RT. Color Development: ECL solution for 6 min at RT. Predicted/Observed Size: ~58 kDa.