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Datasheet for ABIN7142201

**anti-PSMD1 antibody (Regulatory Subunit 10) (HRP)**

## Overview

Quantity:	100 µg
Target:	PSMD1
Binding Specificity:	AA 1-226, Regulatory Subunit 10
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PSMD1 antibody is conjugated to HRP
Application:	ELISA

## Product Details

Immunogen:	Recombinant Human 26S proteasome non-ATPase regulatory subunit 10 protein (1-226AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	>95%, Protein G purified

## Target Details

Target:	PSMD1
Alternative Name:	PSMD1 ( <a href="#">PSMD1 Products</a> )
Background:	Background: Acts as a chaperone during the assembly of the 26S proteasome, specifically of the PA700/19S regulatory complex (RC). In the initial step of the base subcomplex assembly is

## Target Details

part of an intermediate PSMD10:PSMC4:PSMC5:PAAF1 module which probably assembles with a PSMD5:PSMC2:PSMC1:PSMD2 module. Independently of the proteasome, regulates EGF-induced AKT activation through inhibition of the RHOA/ROCK/PTEN pathway, leading to prolonged AKT activation. Plays an important role in RAS-induced tumorigenesis. Acts as an proto-oncoprotein by being involved in negative regulation of tumor suppressors RB1 and p53/TP53. Overexpression is leading to phosphorylation of RB1 and proteasomal degradation of RB1. Regulates CDK4-mediated phosphorylation of RB1 by competing with CDKN2A for binding with CDK4. Facilitates binding of MDM2 to p53/TP53 and the mono- and polyubiquitination of p53/TP53 by MDM2 suggesting a function in targeting the TP53:MDM2 complex to the 26S proteasome. Involved in p53-independent apoptosis. Involved in regulation of NF-kappa-B by retaining it in the cytoplasm. Binds to the NF-kappa-B component RELA and accelerates its XPO1/CRM1-mediated nuclear export.

Aliases: 26S proteasome non-ATPase regulatory subunit 10 antibody, 26S proteasome regulatory subunit p28 antibody, Ankyrin repeat protein antibody, dJ889N15.2 antibody, Gankyrin antibody, Hepatocellular carcinoma-associated protein p28 II antibody, p28 antibody, p28(GANK) antibody, Proteasome (prosome, macropain) 26S subunit, non ATPase, 10 antibody, Proteasome 26S S10 antibody, PSD10\_HUMAN antibody, Psmd10 antibody

UniProt: [O75832](#)

Pathways: [Mitotic G1-G1/S Phases](#), [DNA Replication](#), [Synthesis of DNA](#), [Ubiquitin Proteasome Pathway](#)

## Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Restrictions: For Research Use only

## Handling

Format: Liquid

Buffer: Preservative: 0.03 % Proclin 300  
Constituents: 50 % Glycerol, 0.01M PBS, PH 7.4

Preservative: ProClin

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

Storage: -20 °C,-80 °C

## Handling

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Storage Comment: Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.