

Datasheet for ABIN7139701

anti-PSMD14 antibody (Regulatory Subunit 14) (Biotin)[Go to Product page](#)

Overview

Quantity:	100 µL
Target:	PSMD14
Binding Specificity:	AA 264-283, Regulatory Subunit 14
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PSMD14 antibody is conjugated to Biotin
Application:	ELISA

Product Details

Immunogen:	Peptide sequence from Human 26S proteasome non-ATPase regulatory subunit 14 protein (264-283AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	Antigen Affinity Purified

Target Details

Target:	PSMD14
Alternative Name:	PSMD14 (PSMD14 Products)
Background:	Background: Component of the 26S proteasome, a multiprotein complex involved in the ATP-

Target Details

dependent degradation of ubiquitinated proteins. This complex plays a key role in the maintenance of protein homeostasis by removing misfolded or damaged proteins, which could impair cellular functions, and by removing proteins whose functions are no longer required. Therefore, the proteasome participates in numerous cellular processes, including cell cycle progression, apoptosis, or DNA damage repair. The PSMD14 subunit is a metalloprotease that specifically cleaves 'Lys-63'-linked polyubiquitin chains within the complex. Plays a role in response to double-strand breaks (DSBs): acts as a regulator of non-homologous end joining (NHEJ) by cleaving 'Lys-63'-linked polyubiquitin, thereby promoting retention of JMJD2A/KDM4A on chromatin and restricting TP53BP1 accumulation. Also involved in homologous recombination repair by promoting RAD51 loading.

Aliases: 26S proteasome non-ATPase regulatory subunit 14 antibody, 26S proteasome regulatory subunit rpn11 antibody, 26S proteasome-associated PAD1 homolog 1 antibody, 26S proteasome-associated PAD1 homolog antibody, PAD1 antibody, PAD1, yeast, homolog of antibody, POH1 antibody, Proteasome (prosome, macropain) 26S subunit, non-ATPase, 14 antibody, Proteasome 26S subunit non ATPase 14 antibody, PSDE_HUMAN antibody, Psmd14 antibody, RPN11 antibody, Testis tissue sperm binding protein Li 69n antibody

UniProt:	O00487
Pathways:	Mitotic G1-G1/S Phases , DNA Replication , M Phase , Positive Regulation of Endopeptidase Activity , 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

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