

ARG43996 anti-PSMD14 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes PSMD14
Tested Reactivity	Hu, Ms, Rat
Tested Application	ELISA, FACS, ICC/IF, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	PSMD14
Species	Human
Immunogen	Human PSMD14 recombinant protein
Conjugation	Un-conjugated
Alternate Names	PSMD14; Proteasome 26S Subunit, Non-ATPase 14; POH1; Proteasome (Prosome, Macropain) 26S Subunit, Non-ATPase, 14; 26S Proteasome Non-ATPase Regulatory Subunit 14; 26S Proteasome-Associated PAD1 Homolog 1; Rpn11; Pad1; Testis Tissue Sperm-Binding Protein Li 69n; 26S Proteasome Regulatory Subunit Rpn11; 26S Proteasome Regulatory Subunit RPN11; EC 3.4.19.- ; EC 3.1.2.15; RPN11; PAD1

Application Instructions

Application table	Application	Dilution
	ELISA	0.1-0.5 µg/ml
	FACS	1-3 µg/1x10 ⁶
	ICC/IF	5 µg/ml
	IHC-P	2-5 µg/ml
	WB	0.25-0.5 µg/ml

Application Note * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

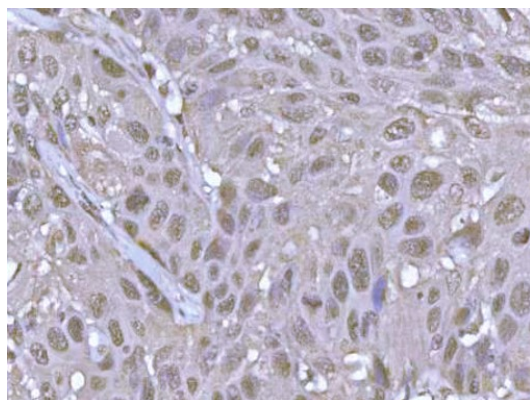
Form	Liquid
Purification	Affinity purified with Immunogen.
Buffer	0.9% NaCl, 0.2% Na ₂ HPO ₄ and 4% Trehalose.
Stabilizer	4% Trehalose
Concentration	0.5 mg/ml

Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

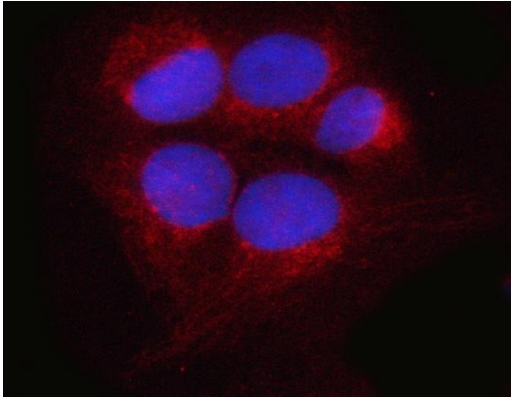
Gene Symbol	PSMD14
Gene Full Name	Proteasome 26S Subunit, Non-ATPase 14
Background	This gene encodes a component of the 26S proteasome. The 26S proteasome is a large multiprotein complex that catalyzes the degradation of ubiquitinated intracellular proteins. The encoded protein is a component of the 19S regulatory cap complex of the 26S proteasome and mediates substrate deubiquitination. A pseudogene of this gene is also located on the long arm of chromosome 2.
Function	Component of the 26S proteasome, a multiprotein complex involved in the ATP-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.
Calculated Mw	35 kDa
PTM	Phosphoprotein
Cellular Localization	Proteasome

Images



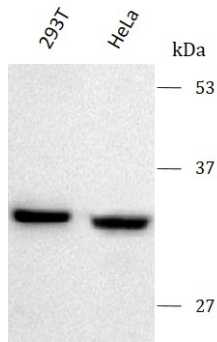
ARG43996 anti-PSMD14 antibody IHC-P image

Immunohistochemistry: Human urothelial carcinoma stained with ARG43996 anti-PSMD14 antibody at 2 µg/ml dilution.



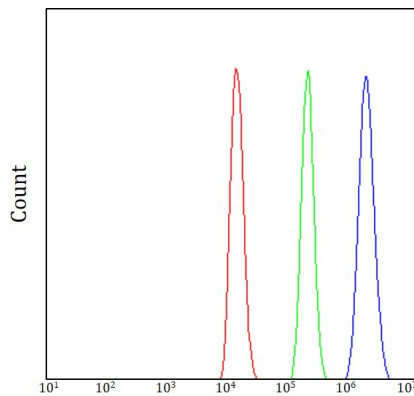
ARG43996 anti-PSMD14 antibody ICC/IF image

Immunofluorescence: U2OS cells stained with ARG43996 anti-PSMD14 antibody at 5 $\mu\text{g}/\text{ml}$ dilution.



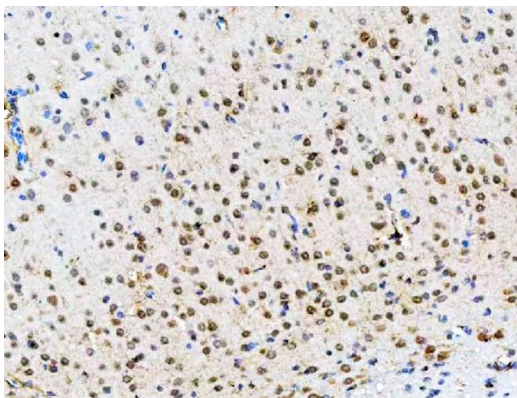
ARG43996 anti-PSMD14 antibody WB image

Western blot: 293T and HeLa stained with ARG43996 anti-PSMD14 antibody at 0.5 $\mu\text{g}/\text{mL}$ dilution.



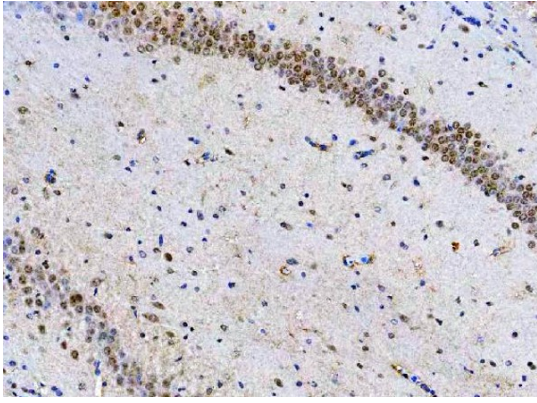
ARG43996 anti-PSMD14 antibody FACS image

Flow Cytometry: Raji cells stained with ARG43996 anti-PSMD14 antibody (blue) at 1 $\mu\text{g}/1 \times 10^6$ cells dilution.



ARG43996 anti-PSMD14 antibody IHC-P image

Immunohistochemistry: Rat brain tissue stained with ARG43996 anti-PSMD14 antibody at 2 $\mu\text{g}/\text{mL}$ dilution.



ARG43996 anti-PSMD14 antibody IHC-P image

Immunohistochemistry: Mouse brain tissue stained with ARG43996 anti-PSMD14 antibody at 2 μ g/mL dilution.