

ARG43998 anti-PSMD4 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes PSMD4
Tested Reactivity	Hu, Ms, Rat
Tested Application	ELISA, FACS, ICC/IF, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	PSMD4
Species	Human
Immunogen	Human PSMD4 recombinant protein
Conjugation	Un-conjugated
Alternate Names	PSMD4; Proteasome 26S Subunit Ubiquitin Receptor, Non-ATPase 4; AF; Rpn10; AF-1; S5A; Proteasome (Prosome, Macropain) 26S Subunit, Non-ATPase, 4; 26S Proteasome Non-ATPase Regulatory Subunit 4; 26S Proteasome Regulatory Subunit S5A; Proteasome 26S Subunit, Non-ATPase 4; Multiubiquitin Chain-Binding Protein; Antisecretory Factor 1; MCB1; ASF; 26S Proteasome Regulatory Subunit RPN10; S5a/Antisecretory Factor Protein; Angiocidin; PUB-R5

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	0.1-0.25 µg/ml

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

Properties

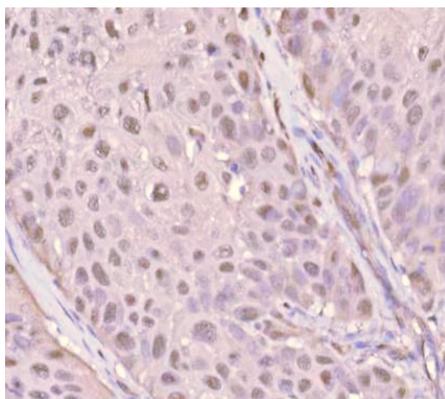
Form	Liquid
Purification	Affinity purified with Immunogen.
Buffer	0.9% NaCl, 0.2% Na ₂ HPO ₄ and 4% Trehalose.
Stabilizer	4% Trehalose
Concentration	0.5 mg/ml

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

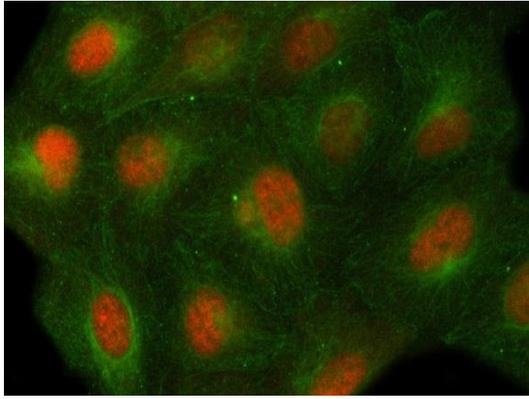
Gene Symbol	PSMD4
Gene Full Name	Proteasome 26S Subunit Ubiquitin Receptor, Non-ATPase 4
Background	The 26S proteasome is a multicatalytic proteinase complex with a highly ordered structure composed of 2 complexes, a 20S core and a 19S regulator. The 20S core is composed of 4 rings of 28 non-identical subunits; 2 rings are composed of 7 alpha subunits and 2 rings are composed of 7 beta subunits. The 19S regulator is composed of a base, which contains 6 ATPase subunits and 2 non-ATPase subunits, and a lid, which contains up to 10 non-ATPase subunits. Proteasomes are distributed throughout eukaryotic cells at a high concentration and cleave peptides in an ATP/ubiquitin-dependent process in a non-lysosomal pathway. An essential function of a modified proteasome, the immunoproteasome, is the processing of class I MHC peptides. This gene encodes one of the non-ATPase subunits of the 19S regulator lid. Pseudogenes have been identified on chromosomes 10 and 21.
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. PSMD4 acts as an ubiquitin receptor subunit through ubiquitin-interacting motifs and selects ubiquitin-conjugates for destruction. Displays a preferred selectivity for longer polyubiquitin chains.
Calculated Mw	41 kDa
PTM	Isopeptide bond, Phosphoprotein, Ubl conjugation
Cellular Localization	Proteasome

Images



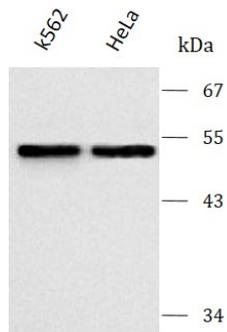
ARG43998 anti-PSMD4 antibody IHC-P image

Immunohistochemistry: Human urothelial carcinoma stained with ARG43998 anti-PSMD4 antibody at 2 µg/ml dilution.



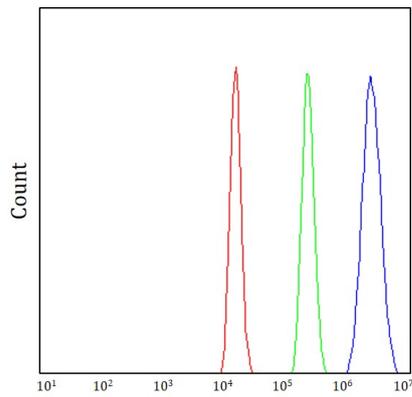
ARG43998 anti-PSMD4 antibody ICC/IF image

Immunofluorescence: U2OS cells stained with ARG43998 anti-PSMD4 antibody at 5 $\mu\text{g}/\text{ml}$ dilution.



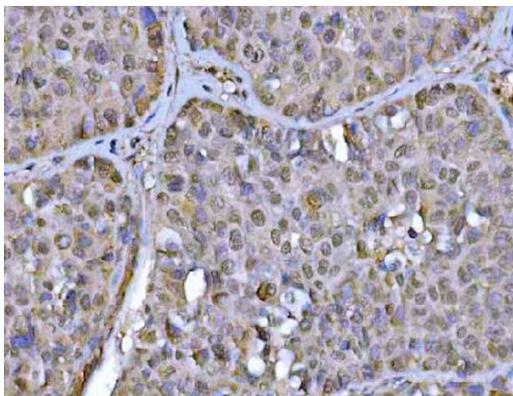
ARG43998 anti-PSMD4 antibody WB image

Western blot: K562 and HeLa stained with ARG43998 anti-PSMD4 antibody at 0.25 $\mu\text{g}/\text{mL}$ dilution.



ARG43998 anti-PSMD4 antibody FACS image

Flow Cytometry: U2OS cells stained with ARG43998 anti-PSMD4 antibody (blue) at 1 $\mu\text{g}/1 \times 10^6$ cells dilution.



ARG43998 anti-PSMD4 antibody IHC-P image

Immunohistochemistry: Human liver cancer stained with ARG43998 anti-PSMD4 antibody at 2 $\mu\text{g}/\text{ml}$ dilution.