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PSMC5 Antibody

Rabbit mAb
Catalog # AP92988

Product Information

Application	WB, IHC, IF, FC, ICC, IP, IHF
Primary Accession	P62195
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Other Names	Cim3; p45; p45/SUG; PSMC5; Rpt6; SUG1; TBP10; TRIP1;
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	45626

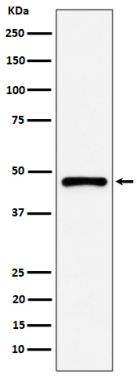
Additional Information

Dilution	WB 1:500~1:2000 IHC 1:50~1:200 ICC/IF 1:50~1:200 IP 1:50 FC 1:50
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human PSMC5
Description	The 26S protease is involved in the ATP-dependent degradation of ubiquitinated proteins. The regulatory (or ATPase) complex confers ATP dependency and substrate specificity to the 26S complex.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

Protein Information

Name	PSMC5 (HGNC:9552)
Function	Component of the 26S proteasome, a multiprotein complex involved in the ATP-dependent degradation of ubiquitinated proteins (PubMed:38776958, PubMed:41298377). 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. PSMC5 belongs to the heterohexameric ring of AAA (ATPases associated with diverse cellular activities) proteins that unfolds ubiquitinated target proteins that are concurrently translocated into a proteolytic chamber and degraded into peptides.
Cellular Location	Cytoplasm. Nucleus.

Images



Western blot analysis of PSMC5 expression in A431 cell lysate.

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