

PSMD14 Antibody

Rabbit mAb Catalog # AP92194

Product Information

Application WB, IHC, IF, ICC, IHF

Primary Accession 000487

Reactivity Rat, Human, Mouse

Clonality Monoclonal

Other Names 26S proteasome non-ATPase regulatory subunit 14; PAD1; POH1; Psmd14;

RPN11;

IsotypeRabbit IgGHostRabbitCalculated MW34577

Additional Information

Dilution WB 1:500~1:2000 IHC 1:50~1:200 ICC/IF 1:50~1:200

Purification Affinity-chromatography

Immunogen A synthesized peptide derived from human PSMD14

Description Metalloprotease component of the 26S proteasome that specifically cleaves

'Lys-63'-linked polyubiquitin chains. The 26S proteasome is involved in the ATP-dependent degradation of ubiquitinated proteins. The function of the

'Lys-63'-specific deubiquitination of the proteasome is unclear.

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 PSMD14

Synonyms POH1

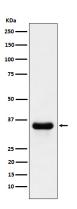
Function Component of the 26S proteasome, a multiprotein complex involved in the

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

Tissue Location

Widely expressed. Highest levels in heart and skeletal muscle.

Images



Western blot analysis of PSMD14 expression in HeLa cell lysate.

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