

PSMD11 Antibody

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP53365

Specification

PSMD11 Antibody - Product Information

Application WB
Primary Accession O00231
Reactivity Human
Host Rabbit
Clonality Polyclonal
Calculated MW 47 KDa
Antigen Region 275-324

PSMD11 Antibody - Additional Information

Gene ID 5717

Target/Specificity

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human PSMD11. The exact sequence is proprietary.

Dilution

WB~~ 1:1000

Format

Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.09% (W/V) sodium azide and 50% glycerol

Storage

Store at -20 °C. Stable for 12 months from date of receipt

PSMD11 Antibody - Protein Information

Name PSMD11

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. In the complex, PSMD11 is required for proteasome assembly. Plays a key role in increased proteasome activity in embryonic stem cells (ESCs): its high expression in ESCs promotes enhanced assembly of the 26S proteasome, followed by higher proteasome activity.

Cellular Location

Nucleus. Cytoplasm, cytosol



Tissue Location

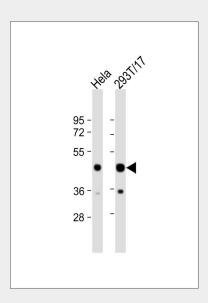
Highly expressed in embryonic stem cells (ESCs). Expression decreases as ESCs differentiate

PSMD11 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

PSMD11 Antibody - Images



All lanes : Anti-PSMD11 Antibody at 1:1000 dilution Lane 1: Hela whole cell lysate Lane 2: 293T/17 whole cell lysate Lysates/proteins at 20 μ g per lane. Secondary Goat Anti-Rabbit IgG, (H+L),Peroxidase conjugated at 1/10000 dilution. Predicted band size : 47 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

PSMD11 Antibody - Background

Component of the lid subcomplex of the 26S proteasome, a multiprotein complex involved in the ATP-dependent degradation of ubiquitinated proteins. In the complex, PSMD11 is required for proteasome assembly. Plays a key role in increased proteasome activity in embryonic stem cells (ESCs): its high expression in ESCs promotes enhanced assembly of the 26S proteasome, followed by higher proteasome activity.

PSMD11 Antibody - References

Hoffman L., et al. FEBS Lett. 404:179-184(1997).

Saito A., et al. Gene 203:241-250(1997).

Ota T., et al. Nat. Genet. 36:40-45(2004).

Suzuki Y., et al. Submitted (APR-2005) to the EMBL/GenBank/DDBJ databases.





Mural R.J., et al. Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.