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Anti-PSMD11 Antibody

Catalog # AP53365

Product Information

Application	WB, IHC
Primary Accession	O00231
Reactivity	Human, Mouse, Rat, Bovine, Mk
Host	Rabbit
Clonality	Polyclonal
Calculated MW	47464

Additional Information

Gene ID	5717
Other Names	26S proteasome non-ATPase regulatory subunit 11; 26S proteasome regulatory subunit RPN6; 26S proteasome regulatory subunit S9; 26S proteasome regulatory subunit p44.5
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 IHC~~1:100~500
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

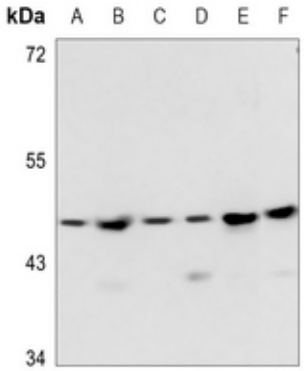
Name	PSMD11
Function	Component of the 26S proteasome, a multiprotein complex involved in the ATP-dependent degradation of ubiquitinated proteins. This complex plays a key role in the maintenance of protein homeostasis by removing misfolded or damaged proteins, which could impair cellular functions, and 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

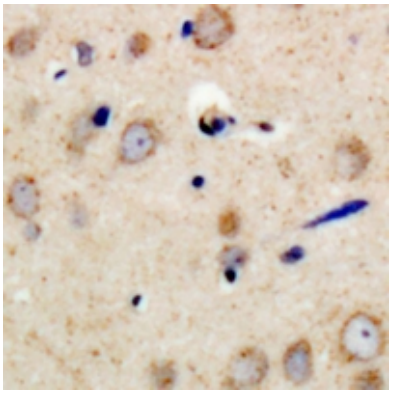
References

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.

Images



Western blot analysis of PSMD11 expression in A549 (A), MCF7 (B), U2OS (C), mouse kidney (D), mouse testis (E), rat testis (F) whole cell lysates. (Predicted band size: 47 kD; Observed band size: 46 kD)



Immunohistochemical analysis of PSMD11 staining in human brain formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.