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# PSMD2 (C) Antibody, Rabbit Polyclonal

**Cat#: R1723-2**

**Lot#: Refer to vial**

**Quantity: 100 ul**

**Application: WB**

**Predicted I Observed M.W.: 100 kDa**

**Uniprot ID: Q13200**

## 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. PSMD2 is one of the non-ATPase subunits of the 19S regulator lid. In addition to participation in proteasome function, PSMD2 may also participate in the TNF signalling pathway since it interacts with the tumor necrosis factor type 1 receptor. A pseudogene has been identified on chromosome 1 [provided by RefSeq].

## Other Names:

26S proteasome non-ATPase regulatory subunit 2, 26S proteasome regulatory subunit RPN1, 26S proteasome regulatory subunit S2, 26S proteasome subunit p97, Protein 55.11, Tumor necrosis factor type 1 receptor-associated protein 2, TRAP2, MGC14274, P97, Rpn1, S2

## Source and Purity:

Rabbit polyclonal antibodies were produced by immunizing animals with a GST-fusion protein containing the C-terminal region of human PSMD2. Antibodies were purified by affinity purification using immunogen.

## Storage Buffer and Condition:

Supplied in 1 x PBS (pH 7.4), 100 ug/ml BSA, 40% Glycerol, 0.01% $NaN_3$. Store at -20 °C. Stable for 6 months from date of receipt.

## Species Specificity:

Human, Mouse

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## Tested Applications:

WB: 1:1,000-1:3,000 (detect endogenous protein*)

*: The apparent protein size on WB may be different from the calculated M.W. due to modifications.

## Product Data:

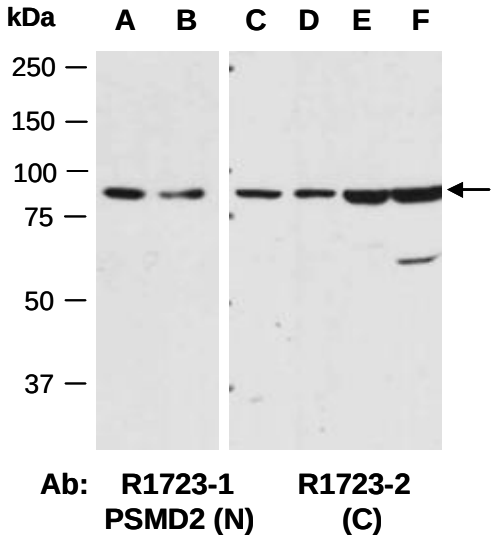


***Fig 1.*** *Western blot of total cell extracts from (A,E) human HeLa, (B,F) human Jurkat, (C) mouse brain, (D) mouse thymus; using 2 independent Abs against 2 distinct regions of human PSMD2 at RT for 2 h.*