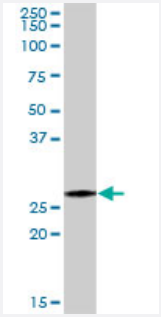
MaxPab®

# PSMA7 purified MaxPab rabbit polyclonal antibody (D01P)

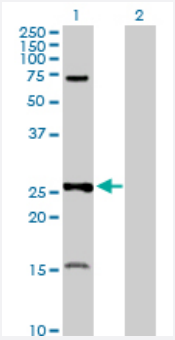
Catalog # H00005688-D01P Size 100 ug

## Applications




### Western Blot (Tissue lysate)

PSMA7 MaxPab rabbit polyclonal antibody. Western Blot analysis of PSMA7 expression in mouse intestine.




### Western Blot (Transfected lysate)

Western Blot analysis of PSMA7 expression in transfected 293T cell line (H00005688-T01) by PSMA7 MaxPab polyclonal antibody.

Lane 1: PSMA7 transfected lysate(27.90 KDa).
Lane 2: Non-transfected lysate.

## Specification

| | |
|---|---|
| **Product Description** | Rabbit polyclonal antibody raised against a full-length human PSMA7 protein. |
| **Immunogen** | PSMA7 (NP_002783.1, 1 a.a. ~ 248 a.a) full-length human protein. |
| **Sequence** | MSYDRAITVFSPDGHLFQVEYAQEAVKKGSTAVGVRGRDIVVLGVEKKSVAKLQDERTVRKICAL DDNVCMAFAGLTADARIVINRARVECQSHRLTVEDPVTVEYITRYIASLKQRYTQSNGRRPFGISALI VGFDFDGTPRLYQTDPSGTYHAWKANAIGRGAKSVREFLEKNYTDEAIETDDLTIKLVIKALLEVVQ SGGKNIELAVMRRDQSLKILNPEEIEKYVAEIEKEKEENEKKKQKKAS |
| **Host** | Rabbit |
| **Reactivity** | Human, Mouse |

| | |
|---|---|
| **Interspecies Antigen Sequence** | Mouse (99); Rat (99) |
| **Quality Control Testing** | Antibody reactive against mammalian transfected lysate. |
| **Storage Buffer** | In 1x PBS, pH 7.4 |
| **Storage Instruction** | Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing. |

## Applications

- Western Blot (Tissue lysate)

  PSMA7 MaxPab rabbit polyclonal antibody. Western Blot analysis of PSMA7 expression in mouse intestine.

  Protocol Download

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  Lane 1: PSMA7 transfected lysate(27.90 KDa).
  Lane 2: Non-transfected lysate.

  Protocol Download

## Gene Info — PSMA7

| | |
|---|---|
| **Entrez GeneID** | 5688 |
| **GeneBank Accession#** | NM_002792.2 |
| **Protein Accession#** | NP_002783.1 |
| **Gene Name** | PSMA7 |
| **Gene Alias** | C6, HSPC, MGC3755, RC6-1, XAPC7 |
| **Gene Description** | proteasome (prosome, macropain) subunit, alpha type, 7 |
| **Omim ID** | 606607 |
| **Gene Ontology** | Hyperlink |

| | |
|---|---|
| **Gene Summary** | The proteasome is a multicatalytic proteinase complex with a highly ordered ring-shaped 20S core structure. The core structure 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. 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. This gene encodes a member of the peptidase T1A family, that is a 20S core alpha subunit. This particular subunit has been shown to interact specifically with the hepatitis B virus X protein, a protein critical to viral replication. In addition, this subunit is involved in regulating hepatitis virus C internal ribosome entry site (IRES) activity, an activity essential for viral replication. This core alpha subunit is also involved in regulating the hypoxia-inducible factor-1alpha, a transcription factor important for cellular responses to oxygen tension. Multiple isoforms of this subunit arising from alternative splicing may exist but alternative transcripts for only two isoforms have been defined. A pseudogene has been identified on chromosome 9. [provided by RefSeq |
| **Other Designations** | OTTHUMP00000031449\|proteasome alpha 7 subunit\|proteasome subunit RC6-1\|proteasome subunit XAPC7\|proteasome subunit alpha 4 |

## Pathway

- Proteasome

## Disease

- Kidney Failure