

Datasheet for ABIN2778810  
**anti-PSMA1 antibody (C-Term)**[Go to Product page](#)

4 Images

1 Publication

## Overview

Quantity:	100 µL
Target:	PSMA1
Binding Specificity:	C-Term
Reactivity:	Human, Mouse, Rat, Dog, Zebrafish (Danio rerio), Rabbit, Cow, Guinea Pig, Horse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PSMA1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

## Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the C terminal region of human PSMA1
Sequence:	TYLERHMSEF MECNLNELVK HGLRALRETL PAEQDLTTKN VSIGIVGKDL
Predicted Reactivity:	Cow: 100%, Dog: 100%, Guinea Pig: 100%, Horse: 100%, Human: 100%, Mouse: 100%, Rabbit: 100%, Rat: 100%, Zebrafish: 100%
Characteristics:	This is a rabbit polyclonal antibody against PSMA1. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

## Target Details

Target:	PSMA1
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## Target Details

Alternative Name: PSMA1 ([PSMA1 Products](#))

**Background:** 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. PSMA1 is a member of the peptidase T1A family which is a 20S core alpha subunit. 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. Two alternative transcripts encoding different isoforms have been identified. 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. Two alternative transcripts encoding different isoforms have been identified.

Alias Symbols: HC2, MGC14542, MGC14575, MGC14751, MGC1667, MGC21459, MGC22853, MGC23915, NU, PROS30

Protein Interaction Partner: PRDM14, CEP70, CCDC102B, GNPTAB, CEP72, KCTD9, ROPN1, ABI3, SH3GLB1, APIP, LDOC1, MTUS2, MAPRE3, MAPRE1, IKZF3, MID2, EHMT2, PNMA2, IKZF1, TRIM10, HUWE1, HOMER3, PNMA1, KRT38, BLZF1, MAD1L1, MKRN3, REL, PSMA3, MLH1, KRT31, KRT15, KRTAP5-9, GOLGA2, CDA, CC

Protein Size: 263

Molecular Weight: 29 kDa

Gene ID: 5682

NCBI Accession: [NM\\_002786](#), [NP\\_002777](#)

## Target Details

UniProt: [P25786](#)

Pathways: [Mitotic G1-G1/S Phases](#), [DNA Replication](#), [Synthesis of DNA](#)

## Application Details

Application Notes: Optimal working dilutions should be determined experimentally by the investigator.

Comment: Antigen size: 263 AA

Restrictions: For Research Use only

## Handling

Format: Liquid

Concentration: Lot specific

Buffer: Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

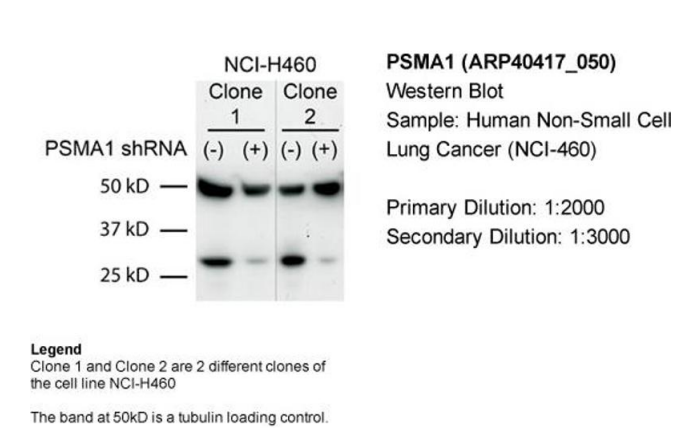
Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -20 °C

Storage Comment: For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

## Publications

Product cited in: Huang, Chen, Wu, Huang, He, Tang, Wang, Wang: "The zebrafish miR-462/miR-731 cluster is induced under hypoxic stress via hypoxia-inducible factor 1α and functions in cellular adaptations." in: **FASEB journal : official publication of the Federation of American Societies for Experimental Biology**, Vol. 29, Issue 12, pp. 4901-13, (2015) ([PubMed](#)).

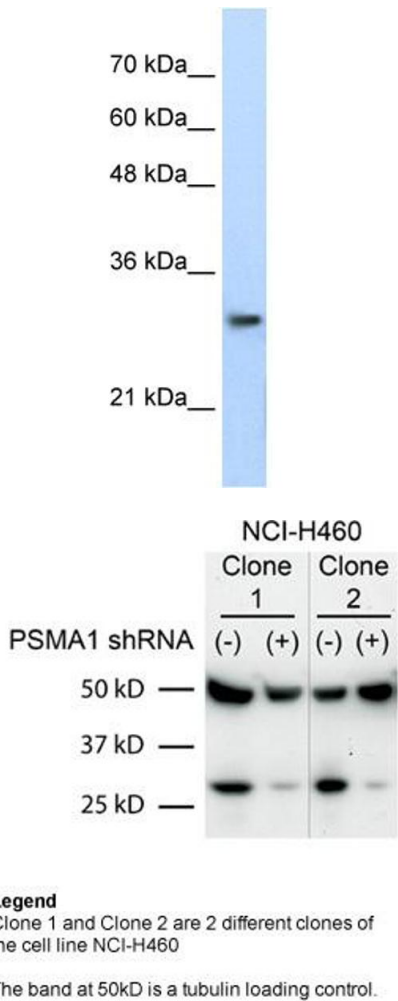


**Western Blotting**

**Image 1.** Sample Type: Human non-small cell lung cancer (NCI-460)Primary Dilution: 1:2000Secondary Dilution: 1:300050kDa band is a tubulin loading control band

**Western Blotting**

**Image 2.** WB Suggested Anti-PSMA1 Antibody Titration: 0.2-1 ug/ml Positive Control: Jurkat cell lysate



**Western Blotting**

**Image 3.** Sample Type: Human non-small cell lung cancer (NCI-460)Primary Dilution: 1:2000Secondary Dilution: 1:300050kDa band is a tubulin loading control band PSMA1 is strongly supported by BioGPS gene expression data to be expressed in Human NCI460 cells

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN2778810.