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Datasheet for ABIN2855902  
**anti-PSMB5 antibody (C-Term)**

3 Images

Overview

Quantity:	100 µL
Target:	PSMB5
Binding Specificity:	C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PSMB5 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunocytochemistry (ICC)

Product Details

Immunogen:	Carrier-protein conjugated synthetic peptide encompassing a sequence within the C-terminus region of human PSMB5. The exact sequence is proprietary.
Isotype:	IgG
Cross-Reactivity:	Human
Characteristics:	Rabbit Polyclonal antibody to PSMB5 (proteasome (prosome, macropain) subunit, beta type, 5) PSMB5 antibody [C2C3], C-term
Purification:	Purified by antigen-affinity chromatography.

Target Details

Target:	PSMB5
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## Target Details

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Alternative Name: proteasome subunit beta 5 ([PSMB5 Products](#))

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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. This gene encodes a member of the proteasome B-type family, also known as the T1B family, that is a 20S core beta subunit in the proteasome. This catalytic subunit is not present in the immunoproteasome and is replaced by catalytic subunit 3i (proteasome beta 8 subunit). Multiple transcript variants encoding different isoforms have been found for this gene.

Cellular Localization: Cytoplasm , Nucleus

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Molecular Weight: 28 kDa

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Gene ID: 5693

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UniProt: [P28074](#)

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

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## Application Details

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Application Notes: WB: 1:500-1:3000. ICC/IF: 1:100-1:1000. IHC-P: 1:100-1:1000. Optimal dilutions/concentrations should be determined by the researcher. Not tested in other applications.

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Comment: Positive Control: A431 , H1299

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Restrictions: For Research Use only

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## Handling

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Format: Liquid

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Concentration: 1 mg/mL

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Buffer: 1XPBS ( pH 7), 1 % BSA, 20 % Glycerol, 0.01 % Thimerosal

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Preservative: Thimerosal (Merthiolate)

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Precaution of Use: This product contains Thimerosal (Merthiolate): a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

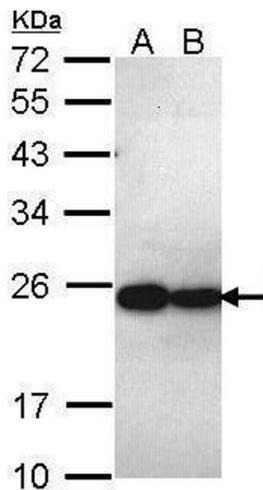
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## Handling

Storage: 4 °C, -20 °C

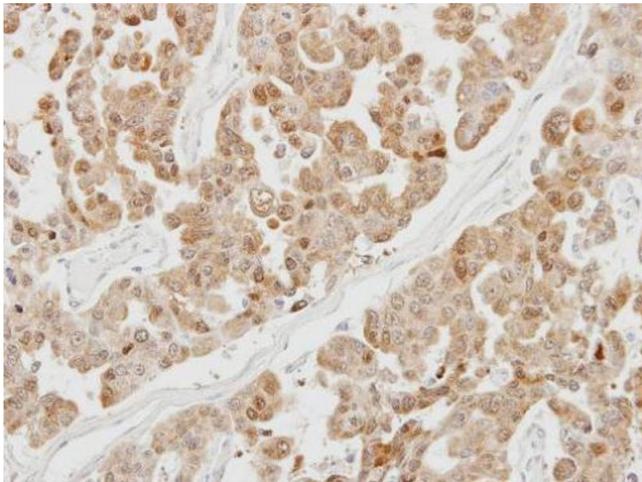
Storage Comment: Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.

## Images



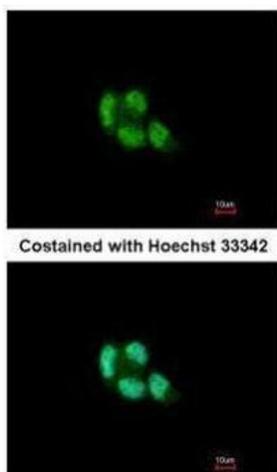
### Western Blotting

**Image 1.** WB Image Sample (30 ug of whole cell lysate) A: A431 , B: H1299 12% SDS PAGE antibody diluted at 1:1000



### Immunohistochemistry

**Image 2.** IHC-P Image Immunohistochemical analysis of paraffin-embedded OVCAR3 xenograft, using PSMB5, antibody at 1:100 dilution.



### Immunofluorescence

**Image 3.** ICC/IF Image Immunofluorescence analysis of paraformaldehyde-fixed A431, using Proteasome 20S beta 5, antibody at 1:200 dilution.