Datasheet for ABIN2855151

anti-PSMA7 antibody (Center)

3 Images

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Overview

Quantity:	100 µL
Target:	PSMA7
Binding Specificity:	Center
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PSMA7 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	Recombinant protein encompassing a sequence within the center region of human Proteasome 20S alpha 7. The exact sequence is proprietary.
Isotype:	IgG
Cross-Reactivity:	Chicken, Pig (Porcine), Rat (Rattus), Cow (Bovine), Xenopus tropicalis
Cross-Reactivity (Details):	Chicken (96 %), Pig (98 %), Rat (98 %), Bovine (99 %), Xenopus tropicalis (97 %)
Characteristics:	Rabbit Polyclonal antibody to PSMA7 (proteasome (prosome, macropain) subunit, alpha type, 7) PSMA7 antibody [N1C3]
Purification:	Purified by antigen-affinity chromatography.

Target Details

Target:	PSMA7
Alternative Name:	PSMA7 (PSMA7 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. 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. Cellular Localization: Cytoplasm , Nucleus
Molecular Weight:	28 kDa
Gene ID:	5688
Pathways:	Mitotic G1-G1/S Phases, DNA Replication, Synthesis of DNA

Application Details

Application Notes:	Suggested dilution Reference IHC (Formalin-fixed paraffin-embedded sections) 1:100-1:1000* Western blot 1:500-1:3000* Not tested in other applications. *Optimal dilutions/concentrations should be determined by the researcher.Suggested dilutionReferenceIHC (Formalin-fixed paraffin-embedded sections)1:100-1:1000* Western blot1:500-1:3000*
Comment:	Positive Control: 293T , A431 , H1299 , HeLa , HepG2 , Molt-4 , Raji , mouse brain
Restrictions:	For Research Use only

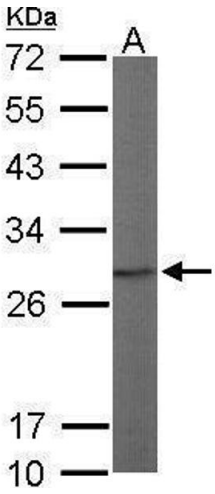
Handling

Format:	Liquid

Handling

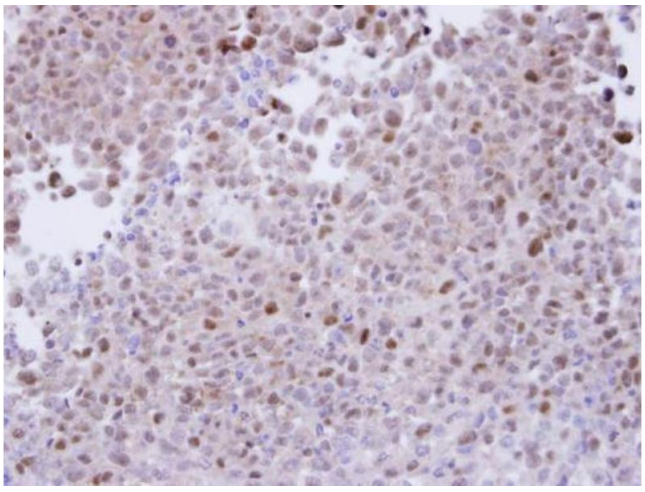
Concentration:	0.32 mg/mL
Buffer:	0.1M Tris, 0.1M Glycine, 10 % Glycerol (pH 7). 0.01 % Thimerosal was added as a preservative.
Preservative:	Thimerosal (Merthiolate)
Precaution of Use:	This product contains Thimerosal (Merthiolate): a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Keep as concentrated solution. Aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.

Images



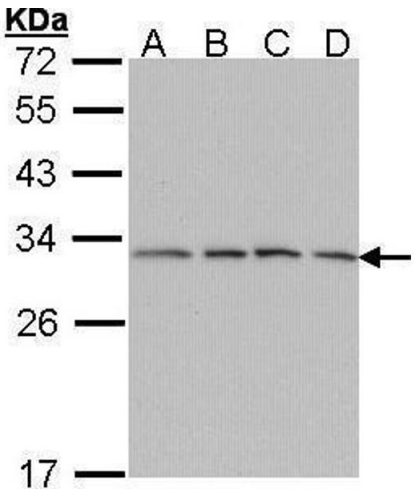
Western Blotting

Image 1. WB Image Sample (50 ug of whole cell lysate) A: Mouse brain 12% SDS PAGE antibody diluted at 1:1000



Immunohistochemistry

Image 2. IHC-P Image Immunohistochemical analysis of paraffin-embedded CL1-5 xenograft, using proteasome alpha 7, antibody at 1:100 dilution.



Western Blotting

Image 3. WB Image Sample (30 ug of whole cell lysate) A: A431 , B: H1299 C: Hela D: Hep G2 , 12% SDS PAGE antibody diluted at 1:1000