ARG64947
anti-PSMB8 / LMP7 antibody

Package: 100 µg
Store at: -20°C

Summary

Product Description	Goat Polyclonal antibody recognizes PSMB8 / LMP7
Tested Reactivity	Hu
Predict Reactivity	Ms, Rat, Cow, Dog, Pig
Tested Application	IHC-P, WB
Specificity	This antibody is expected to recognize both reported isoforms (NP_004150.1; NP_683720.2).
Host	Goat
Clonality	Polyclonal
Isotype	IgG
Target Name	PSMB8 / LMP7
Species	Human
Immunogen	C-DVSDLLHQYREANQ
Conjugation	Un-conjugated
Alternate Names	Proteasome subunit beta-5i; Multicatalytic endopeptidase complex subunit C13; Proteasome subunit beta type-8; D6S216E; Really interesting new gene 10 protein; JMP; LMP7; NKJO; PSMB5i; Proteasome component C13; EC 3.4.25.1; RING10; Low molecular mass protein 7; ALDD; D6S216; Macropain subunit C13

Application Instructions

Application table

Application	Dilution
IHC-P	3 - 5 µg/ml
WB	0.01 - 0.03 µg/ml

Application Note

WB: Recommend incubate at RT for 1h.
IHC-P: Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0).
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

Form	Liquid
Purification	Purified from goat serum by antigen affinity chromatography.
Buffer	Tris saline (pH 7.3), 0.02% Sodium azide and 0.5% BSA.
Preservative	0.02% Sodium azide
Stabilizer	0.5% BSA
Concentration	0.5 mg/ml

Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

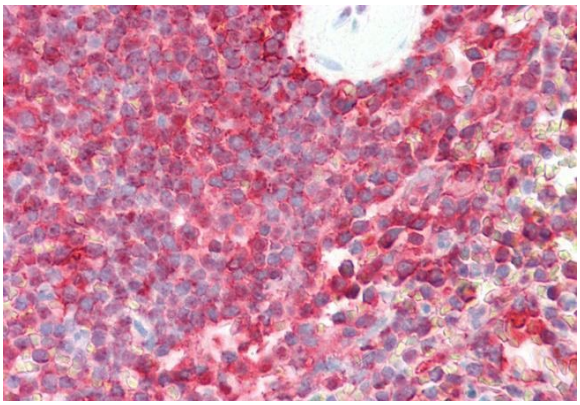
Bioinformation

Database links	GeneID: 5696 Human Swiss-port # P28062 Human
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. This gene is located in the class II region of the MHC (major histocompatibility complex). Expression of this gene is induced by gamma interferon and this gene product replaces catalytic subunit 3 (proteasome beta 5 subunit) in the immunoproteasome. Proteolytic processing is required to generate a mature subunit. Two alternative transcripts encoding two isoforms have been identified; both isoforms are processed to yield the same mature subunit. [provided by RefSeq, Jul 2008]
Research Area	Cell Biology and Cellular Response antibody
Calculated Mw	30 kDa
PTM	Autocleaved. The resulting N-terminal Thr residue of the mature subunit is responsible for the nucleophile proteolytic activity.

Images

ARG64947 anti-PSMB8 / LMP7 antibody WB image

Western blot: Human Liver lysate (35 µg protein in RIPA buffer) stained with ARG64947 anti-PSMB8 / LMP7 antibody at 0.01 µg/ml dilution.



ARG64947 anti-PSMB8 / LMP7 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human spleen tissue. Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0). The tissue section was stained with ARG64947 anti-PSMB8 / LMP7 antibody at 3.75 µg/ml dilution followed by AP-staining.