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Product datasheet for TA812757AM

PSMA1 Mouse Monoclonal Antibody (Biotin conjugated) [Clone ID: OTI9H1]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI9H1
Applications:	IF, WB
Recommended Dilution:	WB 1:250, IF 1:100
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human PSMA1 (NP_002777) produced in E.coli.
Formulation:	PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration:	0.5 mg/ml
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Biotin
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	29.4 kDa
Gene Name:	proteasome subunit alpha 1
Database Link:	NP_002777 Entrez Gene 26440 MouseEntrez Gene 29668 RatEntrez Gene 5682 Human P25786

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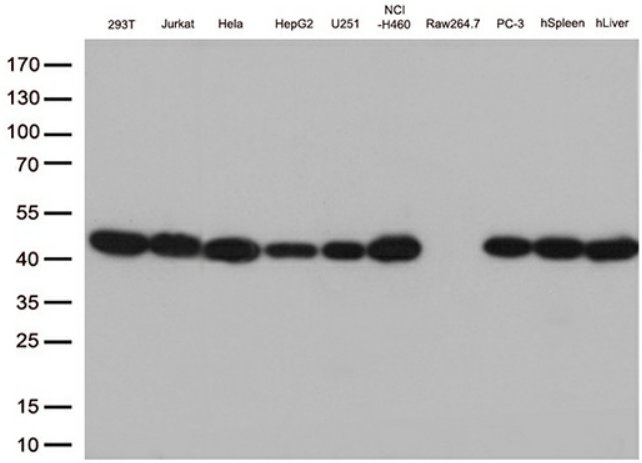
Background: The proteasome is a multicatalytic proteinase complex with a highly ordered ring-shaped 20S core structure. The core structure is composed of 4 rings of 28 non-identical subunits; 2 rings are composed of 7 alpha subunits and 2 rings are composed of 7 beta subunits. Proteasomes are distributed 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 peptidase T1A family, that is a 20S core alpha subunit. Alternative splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Jan 2009]

Synonyms: HC2; HEL-S-275; NU; PROS30

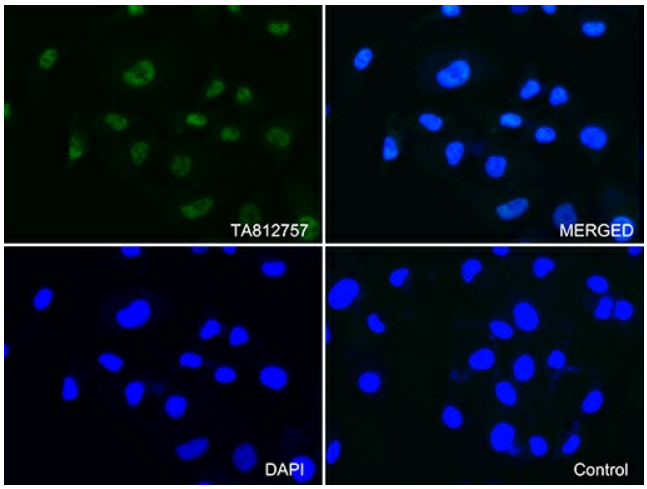
Protein Families: Druggable Genome, Protease

Protein Pathways: Proteasome

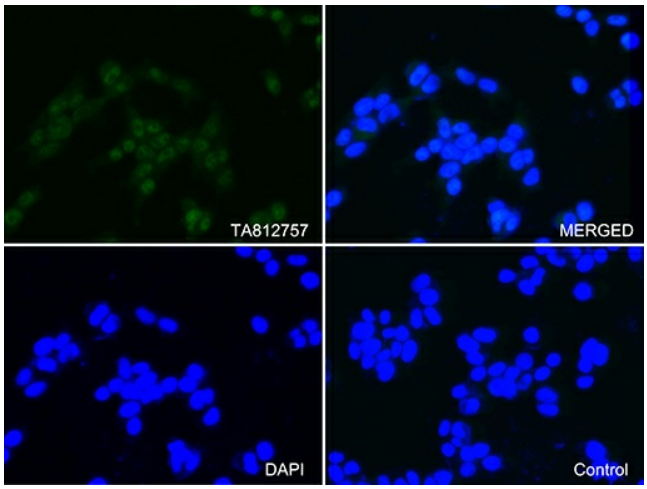
Product images:



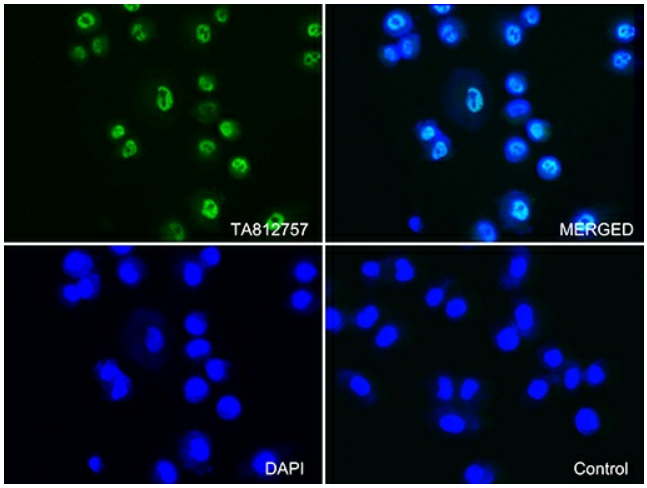
Western blot analysis of extracts (35ug) from 8 cell lines and 2 tissue lysates by using anti-PSMA1 monoclonal antibody (1:250).



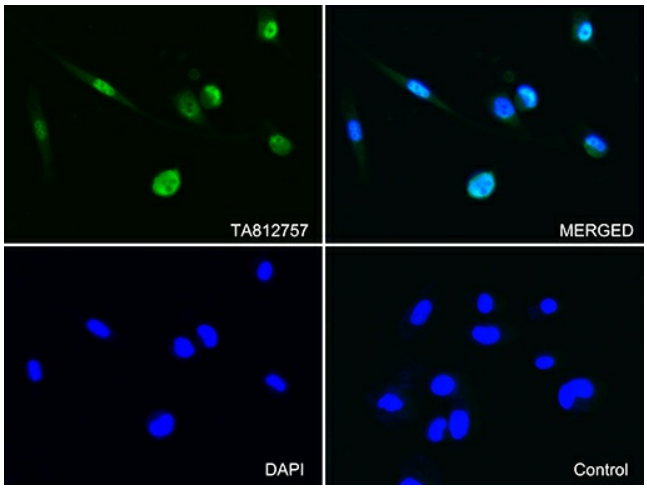
Immunofluorescent staining of Hela cells using anti-PSMA1 antibody ([TA812757]/green, upper left; DAPI/blue, lower left; MERGED, upper right) or Isotype control (MERGED, lower right) (1:100).



Immunofluorescent staining of HEK293T cells using anti-PSMA1 antibody ([TA812757]/green, upper left; DAPI/blue, lower left; MERGED, upper right) or Isotype control (MERGED, lower right) (1:100).



Immunofluorescent staining of NCI-H460 cells using anti-PSMA1 antibody ([TA812757]/green, upper left; DAPI/blue, lower left; MERGED, upper right) or Isotype control (MERGED, lower right) (1:100).



Immunofluorescent staining of PC3 cells using anti-PSMA1 antibody ([TA812757]/green, upper left; DAPI/blue, lower left; MERGED, upper right) or Isotype control (MERGED, lower right) (1:100).