

## Product datasheet for **UM800032CF**

### Proteasome subunit alpha type 6 (PSMA6) Mouse Monoclonal Antibody [Clone ID: UMAB102]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	UMAB102
Applications:	IHC, WB
Recommended Dilution:	IHC 1:100, IF 1:100
Reactivity:	Human, Mouse, Rat, Monkey, Dog
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human PSMA6 (NP_002782) produced in E.coli.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	27.2 kDa
Gene Name:	proteasome 20S subunit alpha 6
Database Link:	<a href="#">NP_002782</a> <a href="#">Entrez Gene 26443 Mouse</a> <a href="#">Entrez Gene 29673 Rat</a> <a href="#">Entrez Gene 480290 Dog</a> <a href="#">Entrez Gene 695113 Monkey</a> <a href="#">Entrez Gene 5687 Human</a> <a href="#">P60900</a>



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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. A pseudogene has been identified on the Y chromosome. [provided by RefSeq, Jul 2008]

**Synonyms:**

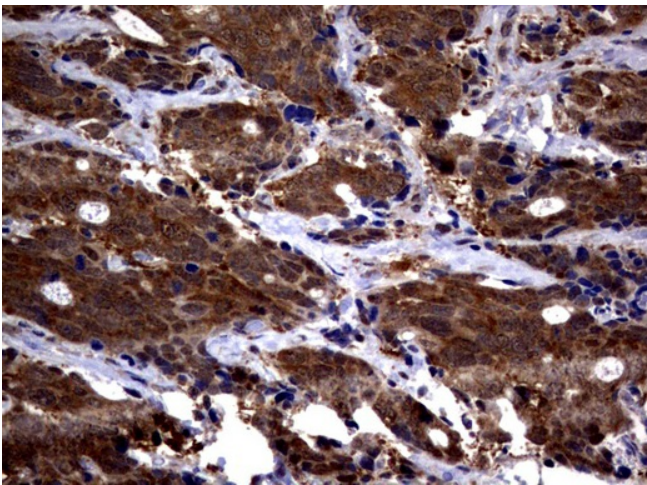
IOTA; p27K; PROS27

**Protein Families:**

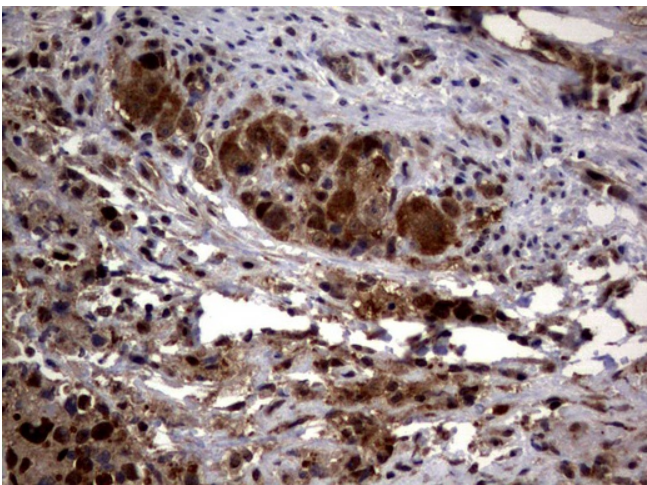
Druggable Genome, Protease, Stem cell - Pluripotency

**Protein Pathways:**

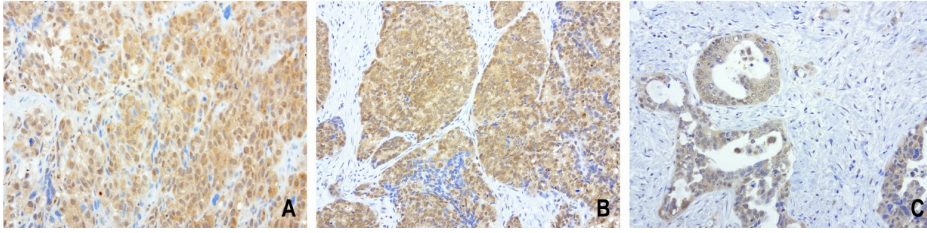
Proteasome

**Product images:**

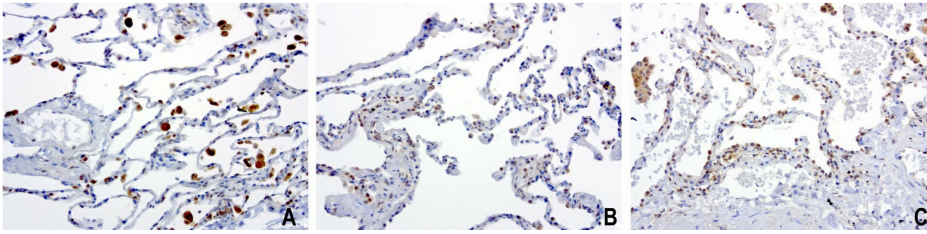
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human breast tissue using anti-PSMA6 mouse monoclonal antibody. ([UM800032]; heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min)



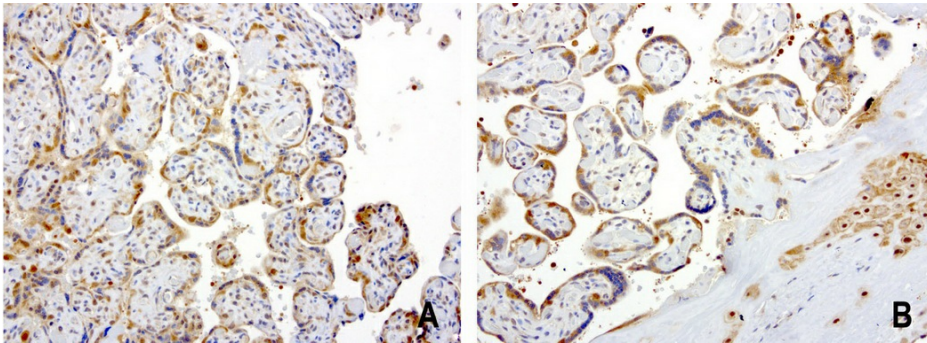
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human colon tissue using anti-PSMA6 mouse monoclonal antibody. ([UM800032]; heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min)



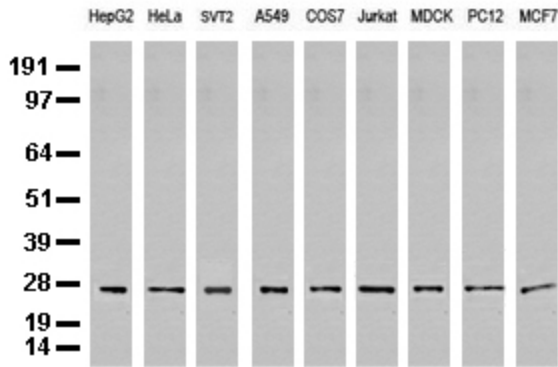
Immunohistochemical staining of 3 cases of paraffin-embedded human endometrial carcinoma using anti-PSMA6 clone UMAB102 mouse monoclonal antibody ([UM800032]) at 1:200 with Polink2 Broad HRP DAB detection kit; heat-induced epitope retrieval with GBI Citrate pH6.0 HIER buffer using pressure chamber for 3 minutes at 110C. Cytoplasmic, membraneous and nuclear staining is seen in all 3 case of tumor cells.



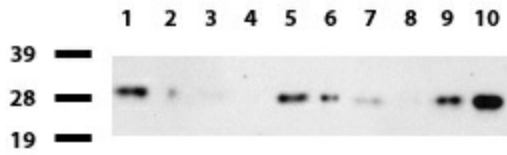
Immunohistochemical staining of 3 cases of paraffin-embedded human lung using anti-PSMA6 clone UMAB102 mouse monoclonal antibody ([UM800032]) at 1:200 with Polink2 Broad HRP DAB detection kit; heat-induced epitope retrieval with GBI Citrate pH6.0 HIER buffer using pressure chamber for 3 minutes at 110C. Most of the staining is nuclear in positive cells of the lung.



Immunohistochemical staining of 2 cases of paraffin-embedded human placenta using anti-PSMA6 clone UMAB102 mouse monoclonal antibody ([UM800032]) at 1:200 with Polink2 Broad HRP DAB detection kit; heat-induced epitope retrieval with GBI Citrate pH6.0 HIER buffer using pressure chamber for 3 minutes at 110C. Staining is nuclear, cytoplasmic, and membraneous in trophoblasts cells of the placenta.



Western blot analysis of extracts (35ug) from 9 different cell lines by using anti-PSMA6 monoclonal antibody (Clone UMAB102).



Western blot of human tissue lysates (15ug) from 10 different tissues (1: Testis, 2: Omentum, 3: Uterus, 4: Breast, 5: Brain, 6: Liver, 7: Ovary, 8: Thyroid, 9: Colon, 10: Spleen ). Dilution: 1:500.