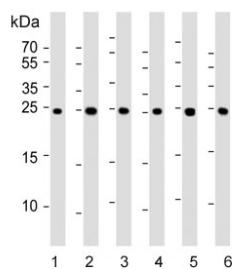


## PSMA5 Antibody / Proteasome subunit alpha type 5 [clone 426CT8.5.1] (F54524)

Catalog No.	Formulation	Size
F54524-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F54524-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

**Bulk quote request**

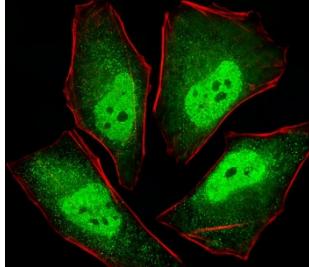
<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human, Mouse, Rat
<b>Format</b>	Purified
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal (mouse origin)
<b>Isotype</b>	IgG1
<b>Clone Name</b>	426CT8.5.1
<b>Purity</b>	Protein G affinity
<b>UniProt</b>	P28066
<b>Localization</b>	Cytoplasmic, nuclear
<b>Applications</b>	Western Blot : 1:500-1:2000 Immunofluorescence : 1:25 Immunohistochemistry (FFPE) : 1:25
<b>Limitations</b>	This PSMA5 antibody is available for research use only.



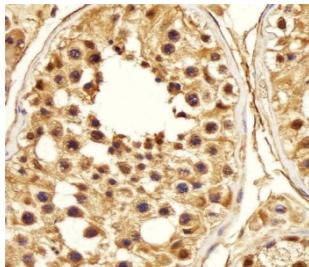
Western blot testing of human 1) liver, 2) HeLa, 3) HepG2, 4) MCF7, 5) mouse Neuro-2a and 6) rat PC-12 cell lysate with PSMA5 antibody. Predicted molecular weight ~26 kDa.

Western blot testing of human K562 cell lysate with PSMA5 antibody. Predicted molecular weight ~26 kDa.

kDa  
28  
17  
11



Immunofluorescent staining of human HeLa cells with PSMA5 antibody (green) and anti-Actin (red).



IHC testing of FFPE human testis tissue with PSMA5 antibody. HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.

## Description

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.

## Application Notes

The stated application concentrations are suggested starting points. Titration of the PSMA5 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

## Immunogen

Recombinant human protein was used as the immunogen for the PSMA5 antibody.

## Storage

Aliquot the PSMA5 antibody and store frozen at -20°C or colder. Avoid repeated freeze-thaw cycles.

