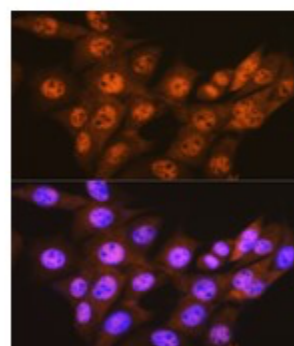
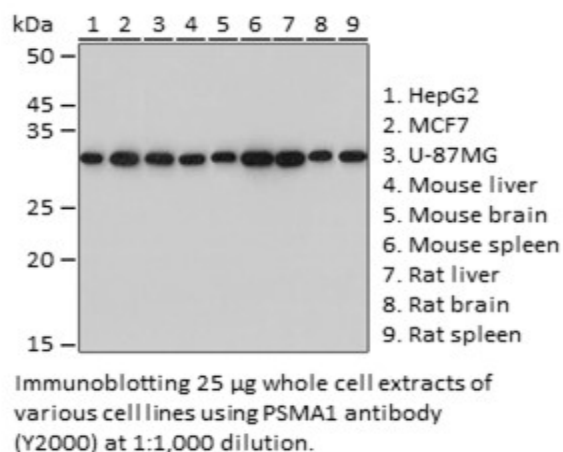


**Product Name:** PSMA1 Rabbit mAb  
**Catalog #:** Y2000-20; Y2000-100  
**Also Known As:** PSMA1; HC2; HEL-S-275; NU; PROS30  
**Quantity:** 20 µl for Y2000-20; 100 µl for Y2000-100  
**Concentration:** See labels on tube  
**Host Species:** Rabbit  
**Isotype:** IgG  
**Reactivity:** Human, Mouse, Rat  
**Immunogen:** A synthesized peptide derived from human proteasome subunit alpha 1 (PSMA1).  
**Swiss Prot. #:** P25786  
**Calculated MW:** 30 kDa  
**Detected MW:** 30 kDa  
**Applications:** WB (1:500 - 1:2,000)  
 IF (1:50 - 1:200)  
 IP (not tested)  
 IHC (not tested)  
 Note: Antibody dilution should be optimized by users.

**Images:**



Immunofluorescence of NIH3T3 cells using PSMA1 antibody (Y2000) at 1:100 dilution. Blue: DAPI nuclear staining.

**Purification:** Protein A or G affinity purification  
**Buffer:** PBS with 0.02% sodium azide, 0.05% BSA, 50% glycerol, pH7.3.  
**Storage:** Store at -20°C. Centrifuge to maximize product recovery.  
**Background:** Proteasome subunit alpha 1 is one of the seven alpha subunits of the 20S proteasome. The 20S proteasome has a barrel-like structure containing four stacked  $\alpha\beta\alpha$  rings. Each  $\alpha$  or  $\beta$  ring is composed of seven different proteins.  $\beta 1$ ,  $\beta 2$  and  $\beta 5$  have peptidase activities that hydrolyze proteins. The corresponding catalytic subunits in immunoproteasomes are  $\beta 1i$ ,  $\beta 2i$  and  $\beta 5i$  subunits. The 20S proteasome can assemble with other protein complexes that activate the 20S proteasome to degrade proteins.  
**Reference:**  
 1. DeMartino GN, et al. (1991) Biochim Biophys Acta 1079, 29 - 38.  
 2. Tomko RJ and Hochstrasser M, (2013) Annu Rev Biochem 82, 415 - 445.  
**Note:** This product is for research use only.