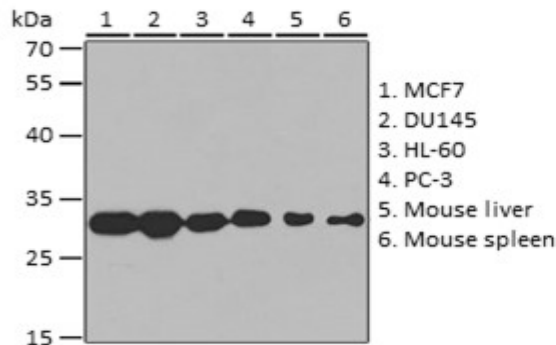
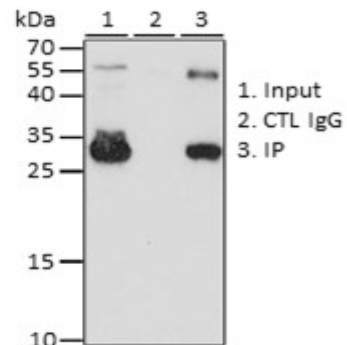


**Product Name:** PSMA3 Rabbit pAb  
**Catalog #:** Y2022-20; Y2022-100  
**Also Known As:** PSMA3; HC8; PSC3  
**Quantity:** 20 µl for Y2022-20; 100 µl for Y2022-100  
**Concentration:** See labels on tube  
**Host Species:** Rabbit  
**Isotype:** IgG  
**Reactivity:** Human, Mouse, Rat  
**Immunogen:** Recombinant fusion protein containing a sequence corresponding to amino acids 1-255 of human proteasome subunit alpha 3 (PSMA3).  
**Swiss Prot. #:** P25788  
**Calculated MW:** 28 kDa  
**Detected MW:** 28 kDa  
**Applications:** WB (1:500 - 1:2,000)  
 IP (1:50 - 1:100 )  
 IHC (1:50 - 1:200)  
 IF (1:50 - 1:200)  
 Note: Antibody dilution should be optimized by users.

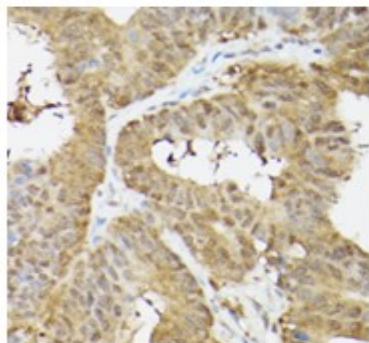
**Images:**



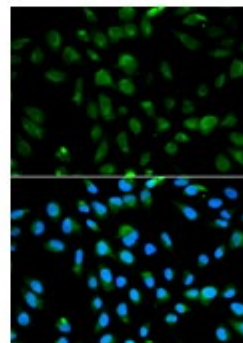
Immunoblotting 25 µg whole cell extracts of various cell lines using PSMA3 antibody (Y2022) at 1:1,000 dilution.



Immunoprecipitation of 200 µg HL-60 cell extracts using 3 µg PSMA3 (Y2022) antibody. Immunoblotting: same antibody at 1:1,000 dilution.



Immunohistochemistry of paraffin-embedded human colon carcinoma using PSMA3 antibody (Y2022) at 1:100 dilution.



Immunofluorescence of MCF-7 cells using PSMA3 antibody (Y2022) at 1:100 dilution. Blue: DAPI nuclear staining.

- Purification:** Protein A or G affinity purification
- Buffer:** PBS with 0.02% sodium azide, 50% glycerol, pH7.3
- Storage:** Store at -20°C. Centrifuge to maximize product recovery.
- Background:** Proteasome subunit alpha 3 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. Akioka H, et al. (1995) Biochem Biophys Res Commun 207, 318 - 323.
  2. Tomko RJ and Hochstrasser M, (2013) Annu Rev Biochem 82, 415 - 445.

