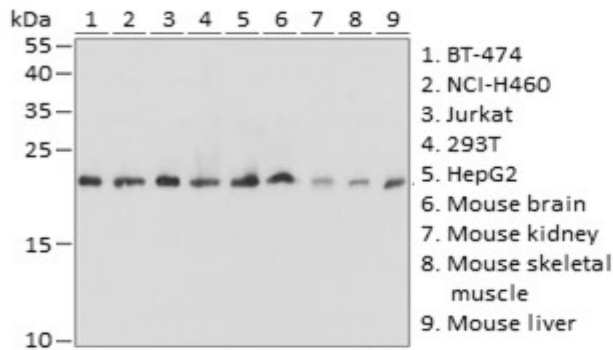
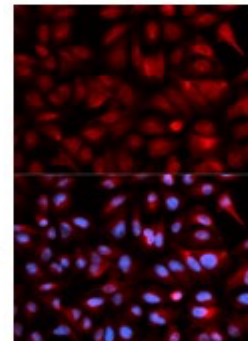


Product Name: PSMB 5 Rabbit pAb
Catalog #: Y2162-20; Y2162-100
Also Known As: PSMB5; LMPX; MB1; X
Quantity: 20 µl for Y2162-20; 100 µl for Y2162-100
Concentration: See labels on tube
Host Species: Rabbit
Isotype: IgG
Reactivity: Human, Mouse, Rat
Immunogen: Recombinant fusion protein containing a sequence corresponding to amino acids 1-263 of human proteasome subunit beta 5 (PSMB5).
Swiss Prot. #: Human, Mouse, Rat
Calculated MW: 28 kDa
Detected MW: 21 kDa
Applications: WB (1:500 - 1:2,000)
 IHC (1:50 - 1:200)
 IF (1:50 - 1:200)
 IP (not tested)
 Note: Antibody dilution should be optimized by users.

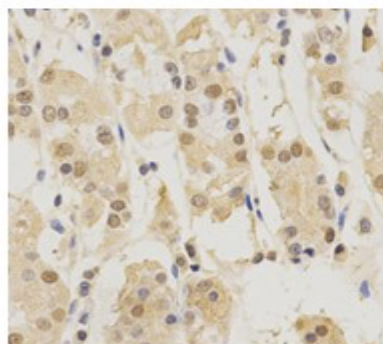
Images:



Immunoblotting 25 µg whole cell extracts of various cell lines using PSMB5 antibody (Y2162) at 1:1,000 dilution.



Immunofluorescence of U2OS cells using PSMB5 antibody (Y2162) at 1:100 dilution. Blue: DAPI nuclear staining.



Immunohistochemistry of paraffin-embedded human stomach using PSMB5 antibody (Y2162) at 1:100 dilution.

- 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 beta 5 is one of the seven beta subunits of the 20S proteasome that catalyzes "chymotrypsin-like" activity by cleaving after large hydrophobic residues of polypeptides. The 20S proteasome has a barrel-like structure containing four stacked $\alpha\beta\beta\alpha$ rings. Each α or β 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. Akiyama K, et al. (1994) Science 265, 1231 - 1234.
 2. Tomko RJ and Hochstrasser M, (2013) Annu Rev Biochem 82, 415 - 445.
- Note:** This product is for research use only.

