

**DESCRIPTION**

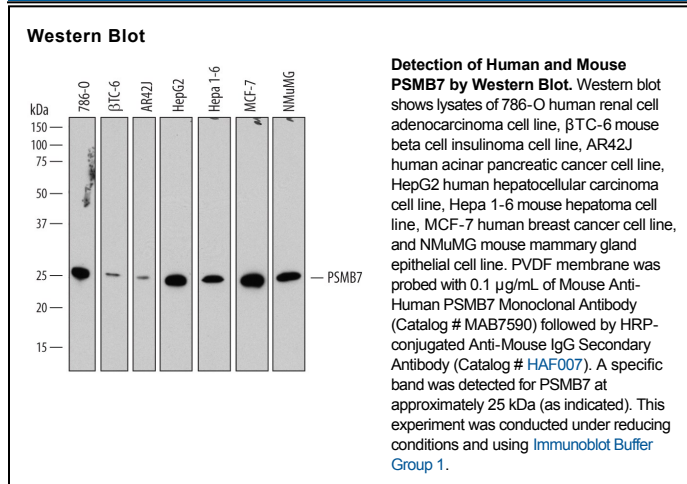
|                           |   |
|---------------------------|---|
| <b>Species Reactivity</b> | Human/Mouse   |
| <b>Specificity</b>        | Detects human PSMB7 in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant human PSMB10 is observed.  |
| <b>Source</b>             | Monoclonal Mouse IgG <sub>1</sub> Clone # 787807  |
| <b>Purification</b>       | Protein A or G purified from hybridoma culture supernatant  |
| <b>Immunogen</b>          | <i>E. coli</i> -derived recombinant human PSMB7<br>Thr44-Ser277<br>Accession # Q99436   |
| <b>Formulation</b>        | Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.<br>*Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS. |

**APPLICATIONS**

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

|                     | <b>Recommended Concentration</b> | <b>Sample</b> |
|---------------------|----------------------------------|---------------|
| <b>Western Blot</b> | 0.5 µg/mL                        | See Below     |

**DATA**



**PREPARATION AND STORAGE**

|                                |  |
|--------------------------------|--|
| <b>Reconstitution</b>          | Sterile PBS to a final concentration of 0.5 mg/mL.   |
| <b>Shipping</b>                | The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.<br>*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C   |
| <b>Stability &amp; Storage</b> | <b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>● 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul> |

**BACKGROUND**

PSMB7 (proteasome subunit, beta-type 7), also called proteasome subunit Z, is a widely expressed, non-catalytic component of the 20S proteasome core within the 26S proteasome that stabilizes late stages of proteasome assembly. Human PSMB7 is synthesized as a 277 amino acid (aa) protein with a 43 aa propeptide and a 234 active protein that contains one potential tyrosine phosphorylation site. Active human PSMB7 shares 97% aa sequence identity with mouse and rat PSMB7. Total PSMB7 expression is positively correlated with chemotherapy resistance in human breast cancer.