

#### 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 Thr44-Ser277 Accession # Q99436
<b>Conjugate</b>	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
<b>Formulation</b>	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide  *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

#### 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.

**Western Blot** Optimal dilution of this antibody should be experimentally determined.

#### PREPARATION AND STORAGE

<b>Shipping</b>	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
<b>Stability &amp; Storage</b>	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

#### 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.

#### PRODUCT SPECIFIC NOTICES

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