Proteasome 20S β5t subunit (human) monoclonal antibody (b8-17)

When cells are stimulated with pro-inflammatory cytokines, most of their constitutively expressed proteasomes are replaced with immunoproteasomes, which increase the production of peptides for presentation on MHC class I molecules. In addition, cortical thymic epithelial cells selectively express a type of proteasome known as the thymoproteasome, in which the β5i immunoproteasome subunit has been replaced by the thymus specific proteasome subunit β5t. The thymoproteasome is required for the positive selection of thymocytes and shaping the T cell receptor repertoire of cytotoxic T lymphocytes. In addition mice deficient in β5t display defective development of CD8(+) T cells in the thymus suggesting a key role for β5t and the thymoproteasome in generating MHC class I-restricted CD8(+) T cells.

This antibody is covered by our Worry-Free Guarantee.

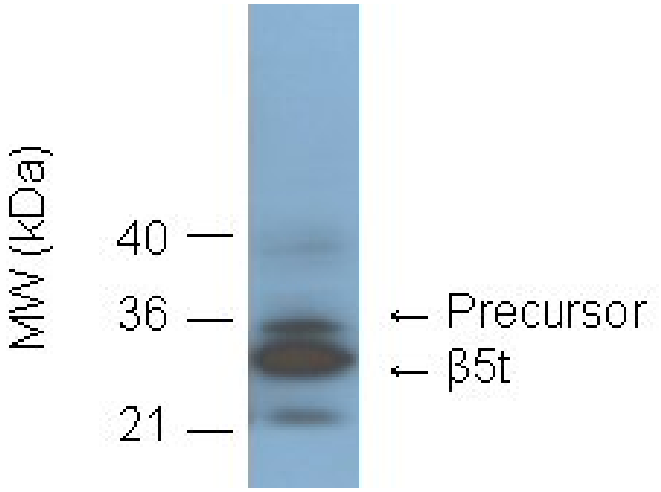
Ordering Information

Order Online »

BML-PW1020-0025	25µl
BML-PW1020-0100	100µl

Manuals, SDS & CofA

View Online »



Western blot showing detection of 20S proteasome subunit β5t in C57/BL6 mouse thymus lysate by BML-PW1020 at 1:1000 dilution.

Handling & Storage

Use/Stability	Stable for at least 1 year after receipt when stored at -20°C.
Handling	Avoid freeze/thaw cycles. After opening, prepare aliquots and store at -20°C.
Short Term Storage	+4°C
Long Term Storage	-20°C
Shipping	Blue Ice

Regulatory Status

RUO - Research Use Only

Product Details

Alternative Name	Proteasome subunit β type-11
Application	WB
Clone	b8-17
Formulation	Liquid. In PBS containing 0.01% sodium azide.
Gene/Protein Identifier	PSMB11 (gene name)
Host	Mouse
Immunogen	Recombinant human 20S proteasome β5t subunit.
Isotype	IgG1
Purity Detail	Ion exchange purified.
Recommendation Dilutions/Conditions	Western Blot (1:500-1:1,000)Suggested dilutions/conditions may not be available for all applications.Optimal conditions must be determined individually for each application.
Source	Purified from hybridoma tissue culture supernatant.
Species Reactivity	Human, Mouse

Specificity	Recognizes the β5t subunit of the 20S proteasome.
Technical Info / Product Notes	The hybridoma secreting the antibody clone b8-17 was generated by fusion of splenocytes from Balb/cmice which had received repeated immunisation with recombinant human β5t subunit protein (accession number: A5LHX3). Immunoglobulin was purified from tissue culture supernatant by ion exchange chromatography.
UniProt ID	A5LHX3
Worry-free Guarantee	**This antibody is covered by our Worry-Free Guarantee .**

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