

Human 20S Immunoproteasome Antibody

Monoclonal Mouse IgG₁ Clone # 894510

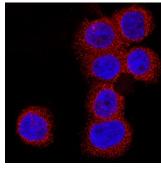
Catalog Number: MAB8194

DESCRIPTION			
Species Reactivity	Human		
Specificity	Detects human 20S Immunoproteasome in direct ELISA.		
Source	Monoclonal Mouse IgG ₁ Clone # 894510		
Purification	Protein A or G purified from hybridoma culture supernatant		
Immunogen	Human 20S Immunoproteasome purified from peripheral blood mononuclear cells		
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.		

APPLICATIONS

Recommended Concentration Sample Immunocytochemistry 5-25 μg/mL See Below	rease Note: Optimal dilutions should be determined by each laboratory for each application. Senteral Protocols are available in the Technical Information Section of our website.			
Immunocytochemistry 5-25 μg/mL See Below			Sample	
	Immunocytochemistry	5-25 μg/mL	See Below	

Immunocytochemistry



20S Immunoproteasome in U937 Human Cell Line. 20S Immunoproteasome was detected in immersion fixed U937 human histiocytic lymphoma cell line using Mouse Anti-Human 20S Immunoproteasome Polyclonal Antibody (Catalog # MAB8194) at 8 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (red; Catalog # NL007) and counterstained with DAPI (blue). Specific staining was localized to cytoplasm. View our protocol for Fluorescent ICC Staining of Non-adherent

PREPARATION AND STORAGE

Reconstitution Reconstitute at 0.5 mg/mL in sterile PBS.

Shipping The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

Stability & Storage

Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution. 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

The 20S Immunoproteasome is a modified form of the constitutively active 20S Proteasome core particle and is the catalytic subunit of the multi-complex Immunoproteasome. The structure of the 20S Immunoproteasome is similar to the 20S Proteasome, which is composed of 28 non-identical subunits arranged into four stacked rings. However, during 20S Immunoproteasome assembly, the three catalytic beta subunits, beta 1, 2, and 5, in the two interior rings of the 20S Proteasome are replaced by three IFN-gamma-inducible catalytic subunits: beta 1i/LMP2, beta 2i/LMP7, and beta 5i/MECL-1. The 20S Immunoproteasome is commonly associated with the 19S, PA28 alpha/beta, or the PA28 gamma regulatory complexes. 20S Immunoproteasome expression is enriched in antigen presenting cells of the immune system where the 20S Immunoproteasome selectively degrades intracellular proteins in a manner that optimizes the generation of peptides for MHC class I antigen presentation.

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