Human 20S Immunoproteasome Alexa Fluor® 532-conjugated Antibody

Monoclonal Mouse IgG_1 Clone # 894510

Catalog Number: FAB8194X

100 µg

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
Conjugate	Alexa Fluor 532 Excitation Wavelength: 534 nm Emission Wavelength: 553 nm
Formulation	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.*

Immunocytochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

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

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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