

Human HLA Class I Alexa Fluor® 647-conjugated Antibody

Monoclonal Mouse IgG_{2A} Clone # W6/32

Catalog Nu

umber:	FAB/098R
	100 ua

DESCRIPTION		
Species Reactivity	Human	
Specificity	Detects the human major histocompatibility complex (MHC) class I, HLA-A, B, and C. Recognizes a non-polymorphic epitope shared amo products of the HLA-A, B, and C loci and immunoprecipitates both the HLA molecule and beta 2-Microglobulin.	
Source	Monoclonal Mouse IgG _{2A} Clone # W6/32	
Purification	Protein A or G purified from hybridoma culture supernatant	
Immunogen	Membranes from human tonsillar lymphocytes	
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm	
	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details.	
	*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Shec (SDS) for additional information and handling instructions.	

APPLICATIONS

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	Recommended	Sample
	Concentration	
Flow Cytometry	0.25-1 μg/10 ⁶ cells	Human peripheral blood lymphocytes

PREPARATION AND STORAGE

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

Stability & Storage Protect from light. Do not freeze.

• 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

HLA-A, B, and C are approximately 45 kDa transmembrane glycoproteins in the major histocompatibility complex 1 (MHC I) family. They contain three alpha domains in their extracellular regions. HLA molecules are expressed on nearly all nucleated cells in association with the 12 kDa beta 2-Microglobulin. This complex binds peptides derived from pathogenic cytosolic or extracellular proteins such as viral or microbial proteins. It presents these peptides on the cell surface for recognition by the T cell receptor on CD8+ cytotoxic T cells. The activated cytotoxic T cell then kills the presenting cell. Mismatched MHC I alleles between a host and a donor lead to transplant rejection.

References:

1. Barnstable, C.J. et al. (1978) Cell 14:9

PRODUCT SPECIFIC NOTICES

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