For Research Use Only

CoraLite® Plus 488-conjugated HLA class I ABC Monoclonal antibody

Catalog Number:CL488-66013 Featured Product

proteintech®
Antibodies | ELISA kits | Proteins
www.ptglab.com

Basic Information

Catalog Number:
CL488-66013

Size:
100ul , Concentration: 1000 ug/ml by Nanodrop;

Source:
Mouse

Isotype:
IgG2b

Immunogen Catalog Number:
AG7488

GenBank Accession Number:
BC003069

GeneID (NCBI):
3105

UNIPROT ID:
P04439

Full Name:
major histocompatibility complex, class I, A

Calculated MW:
41 kDa

Observed MW:
40-44 kDa

Purification Method:
Protein A purification

CloneNo.:
5C5B7

Recommended Dilutions:
IF-P: 1:50-1:500
IF/ICC: 1:50-1:500
FC: 0.40 ug per 10^6 cells in a 100 µl suspension

Excitation/Emission maxima wavelengths:
493 nm / 522 nm

Applications

Tested Applications:
IF/ICC, IF-P, FC

Species Specificity:
human, pig

Positive Controls:

IF-P : human tonsillitis tissue, Raji cells

IF/ICC : Raji cells,

FC : Raji cells,

Background Information

Human major histocompatibility complex (MHC) antigens, also referred to as human leukocyte antigens (HLA), are encoded by genes located on the short arm of chromosome 6 (6p21.3). There are two classes of HLA antigens: class I (HLA-A, B and C) and class II (HLA-D). This class I molecules are polymorphic membrane glycoproteins composed of a heavy (alpha) chain (44 kDa) which is encoded by a HLA class I gene (HLA-A, B or C), and β2-microglobulin light (beta) chain (12 kDa). They are involved in the presentation of foreign antigens to the immune system. (PMID: 667938; 3375250)

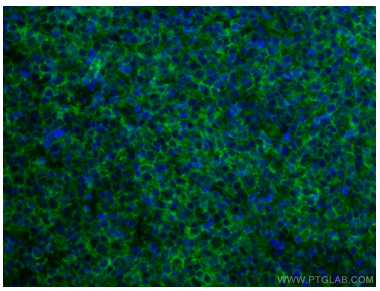
Storage

Storage:
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 50% glycerol, 0.05% Proclin300, 0.5% BSA, pH7.3
Aliquoting is unnecessary for -20°C storage

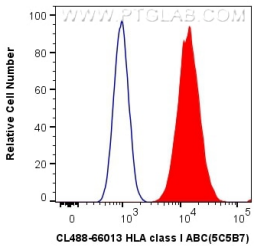
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

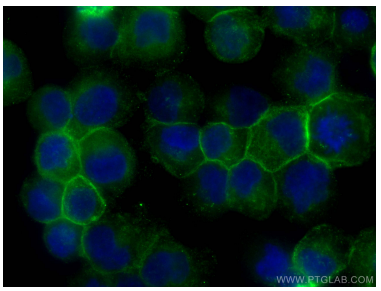
Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed human tonsillitis tissue using CL488-66013 (HLA class I ABC antibody) at dilution of 1:50.



1X10^6 Raji cells were surface stained with 0.4 ug CoraLite® Plus 488 Anti-Human HLA class I ABC (CL488-66013, Clone:5C5B7) (red), or 0.4 ug CoraLite® Plus 488 Mouse IgG2b Isotype Control (MPC-11) (CL488-65128, Clone: MPC-11) (blue). Cells were not fixed.



Immunofluorescent analysis of (4% PFA) fixed Raji cells using CoraLite® Plus 488 HLA class I ABC antibody (CL488-66013, Clone: 5C5B7) at dilution of 1:200.