For Research Use Only

CoraLite®700 Anti-Human CD83 (HB15e) Mouse IgG2a Recombinant Antibody

Catalog Number:CL700-65581

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Basic Information

Catalog Number:
CL700-65581

Size:
100tests , 5 ul/test

Source:
Mouse

Isotype:
IgG2a

GenBank Accession Number:
BC030830

GeneID (NCBI):
9308

ENSEMBL Gene ID:
ENSG00000112149

UNIPROT ID:
Q01151

Full Name:
CD83 molecule

Calculated MW:
205 aa, 23 kDa

Purification Method:
Protein A purification

CloneNo.:
HB15e

Recommended Dilutions:
FC: 5 ul per 10^6 cells in a 100 µl suspension

Excitation/Emission maxima wavelengths:
702 nm / 723 nm

Applications

Tested Applications:
FC

Species Specificity:
human, cynomolgus monkey

Positive Controls:

FC : human monocyte-derived mature dendritic cells,

Background Information

CD83 is a member of the immunoglobulin (Ig) superfamily, consisting of an extracellular V-type Ig-like domain, a transmembrane domain, and a cytoplasmic tail. CD83 is one of the most prominent markers for fully matured dendritic cells (DCs) (PMID: 17334966). It is also found on the surface of other activated hematopoietic cells, including lymphocytes, monocytes, macrophages, and neutrophils (PMID: 31231400; 17334966). CD83 regulates the maturation, activation, and homeostasis of numerous immune cells (PMID: 31231400; 32362900). CD83 can also expressed as a soluble form. Soluble CD83 can bind to DCs and inhibit their maturation (PMID: 17334966; 12403928).

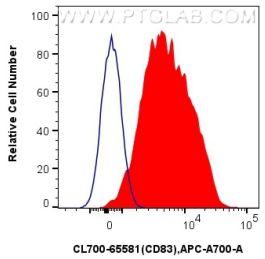
Storage

Storage:
Store at 2-8°C. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 0.09% sodium azide and 0.5% BSA, pH7.3

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



1x10^6 human monocyte-derived mature dendritic cells were surface stained with 5 ul CoraLite®700 Anti-Human CD83 (HB15e) Mouse IgG2a RecAb (CL700-65581, Clone: HB15e) (red) or CoraLite®700 Mouse IgG2a Isotype Control (MOPC-173) Recombinant Antibody (CL700-65571, Clone: MOPC-173) (blue). Cells were incubated with FC Receptor Block prior to staining. Cells were not fixed.