



Mouse Anti-Human CD45R0 Monoclonal Antibody, clone UCHL1 (CABT-Z606M)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Specificity	The antibody UCHL1 recognizes CD45R0, a 180 kDa low molecular weight isoform of the leukocyte common antigen (LCA).
Immunogen	Human CD45R0
Isotype	IgG2a
Source/Host	Mouse
Species Reactivity	Human
Clone	UCHL1
Purification	Protein A purified
Conjugate	Unconjugated
Applications	FA
Format	Liquid
Concentration	Lot specific
Size	100 µg
Buffer	PBS (sterile), pH 7.2.
Preservative	None
Storage	Store at 4°C. For long-term storage aliquot and store at -20°C. Avoid freeze/thaw cycles.

BACKGROUND

Introduction

CD45RO is the shortest isoform of a receptor-type protein tyrosine phosphatase, CD45 glycoprotein. CD45 (LCA, leukocyte common antigen) is a receptor-type protein tyrosine phosphatase ubiquitously expressed in all nucleated hematopoietic cells, comprising approximately 10% of all surface proteins in lymphocytes. CD45 glycoprotein is crucial in lymphocyte development and antigen signaling, serving as an important regulator of Src-family kinases. CD45 protein exists as multiple isoforms as a result of alternative splicing; these isoforms differ in their extracellular domains, whereas they share identical transmembrane and cytoplasmic domains. These isoforms differ in their ability to translocate into the glycosphingolipid-enriched membrane domains and their expression depends on cell type and physiological state of the cell. Besides the role in immunoreceptor signaling, CD45 is important in promoting cell survival by modulating integrin-mediated signal transduction pathway and is also involved in DNA fragmentation during apoptosis.

Keywords

PTPRC;protein tyrosine phosphatase, receptor type, C;CD45;receptor-type tyrosine-protein phosphatase C;GP180;LCA

GENE INFORMATION

Gene Name

PTPRC

Entrez Gene ID

[5788](#)

UniProt ID

[P08575](#)