

CD45 Monoclonal Antibody

Description

Product type	Antibody
Code	BT-MCA3642
Host	Mouse
Isotype	Mouse IgG2b
Size	100µL, 50µL
Immunogen	Purified recombinant fragment of human CD45 (AA: extra 431-577) expressed in E. Coli.
Mol wt	147.3kDa
Species reactivity	Human
Clonality	Monoclonal
Recommended application	IHC,FCM
Concentration	N/A
Full name	N/A
Synonyms	PTPRC;LCA;LY5;B220;L-CA;T200;CD45R;GP180

This product is for research use only, not for use in human, therapeutic or diagnostic procedure.

Background

The protein encoded by this gene is a member of the protein tyrosine phosphatase (PTP) family. PTPs are known to be signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitosis, and oncogenic transformation. This PTP contains an extracellular domain, a single transmembrane segment and two tandem intracytoplasmic catalytic domains, and thus is classified as a receptor type PTP. This PTP has been shown to be an essential regulator of T- and B-cell antigen receptor signaling. It functions through either direct interaction with components of the antigen receptor complexes, or by activating various Src family kinases required for the antigen receptor signaling. This PTP also suppresses JAK kinases, and thus functions as a regulator of cytokine receptor signaling. Alternatively spliced transcripts variants of this gene, which encode distinct isoforms, have been reported.

Recommended Dilution

WB: 1:500 - 1:2000

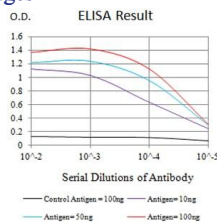
IHC-p: 1:200 - 1:1000

FCM: 1:200 - 1:400

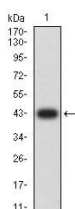
ELISA: 1:10000

Not yet tested in other applications.

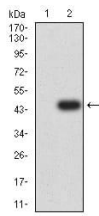
Images



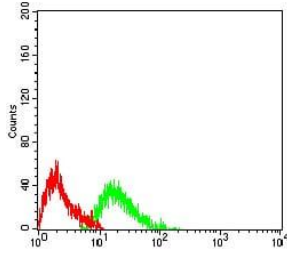
Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)



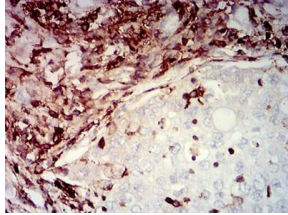
Western blot analysis using CD45 mAb against human CD45 (AA: extra 431-577) recombinant protein. (Expected MW is 43 kDa)



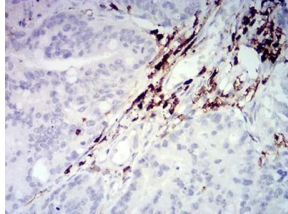
Western blot analysis using CD45 mAb against HEK293 (1) and CD45 (AA: extra 431-577)-hIgGFc transfected HEK293 (2) cell lysate.



Flow cytometric analysis of Raji cells using CD45 mouse mAb (green) and negative control (red).



Immunohistochemical analysis of paraffin-embedded lung cancer tissues using CD45 mouse mAb with DAB staining.



Immunohistochemical analysis of paraffin-embedded rectum cancer tissues using CD45 mouse mAb with DAB staining.

Storage

Store at 4°C short term. Aliquot and store at -20°C long term.

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