

CD45R Monoclonal Antibody

Description

Product type	Antibody
Code	BT-MCA2348
Host	Mouse
Isotype	Mouse IgG1
Size	100µL, 50µL
Immunogen	Purified recombinant fragment of human CD45R (AA: extra 378-577) expressed in E. Coli.
Mol wt	147.5kDa
Species reactivity	Others
Clonality	Monoclonal
Recommended application	WB,IHC,ICC,FCM
Concentration	N/A
Full name	N/A
Synonyms	PTPRC;LCA;LY5;B220;L-CA;T200;CD45;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

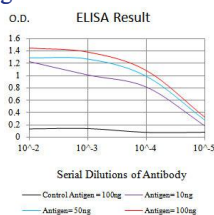
ICC: 1:200 - 1:1000

FCM: 1:200-1:400

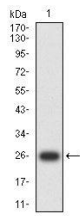
ELISA: 1:10000

Not yet tested in other applications.

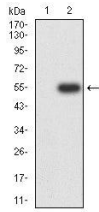
Images



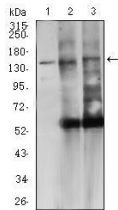
Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line: Antigen (100 ng)



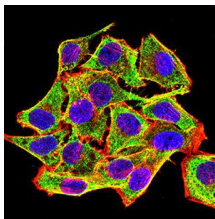
Western blot analysis using CD45R mAb against human CD45R (AA: extra 378-577) recombinant protein. (Expected MW is 26 kDa)



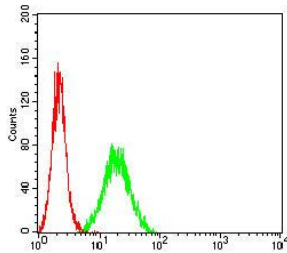
Western blot analysis using CD45R mAb against HEK293-6e (1) and CD45R (AA: extra 378-577)-hlgGfC transfected HEK293-6e (2) cell lysate.



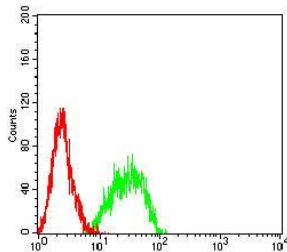
Western blot analysis using CD45R mouse mAb against Jurkat (1), Rat Serum (2), and mouse Serum (3) cell lysate.



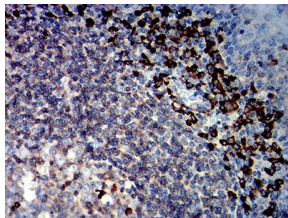
Immunofluorescence analysis of HeLa cells using CD45R mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor- 555 phalloidin. Secondary antibody from Fisher (Cat#: 35503)



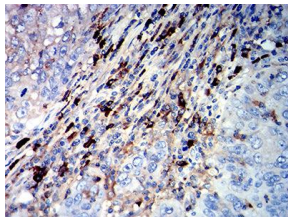
Flow cytometric analysis of HeLa cells using CD45R mouse mAb (green) and negative control (red).



Flow cytometric analysis of Jurkat cells using CD45R mouse mAb (green) and negative control (red).



Immunohistochemical analysis of paraffin-embedded tonsil tissues using CD45R mouse mAb with DAB staining.



Immunohistochemical analysis of paraffin-embedded cervical cancer tissues using CD45R mouse mAb with DAB staining.

Storage

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

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