Recombinant CD7 Monoclonal Antibody

catalog number: **AN301760L**

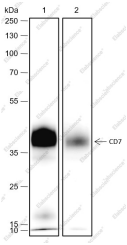
Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

Description

Reactivity	Human
Immunogen	Recombinant human CD7 fragment
Host	Rabbit
Isotype	Rabbit IgG
Clone	C311382
Purification	Protein A purified
Buffer	PBS, 50% glycerol, 0.05% Proclin 300, 0.05% protein protectant.

Applications	Recommended Dilution
WB	1:500-1:2000
IHC	1:200-1:1000
IF	1:50
FCM	1:50-1:100

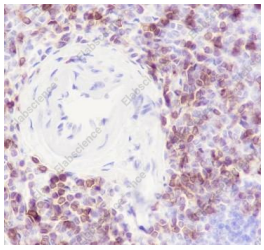
Data



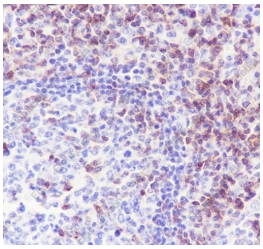
Western Blot with CD7 Monoclonal Antibody at dilution of 1:1000. Lane 1: HepG2, Lane 2: MOLT4

Observed-MW:37-40 kDa

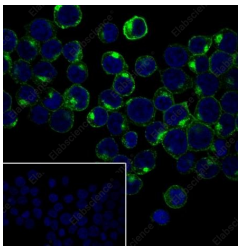
Calculated-MW:25 kDa



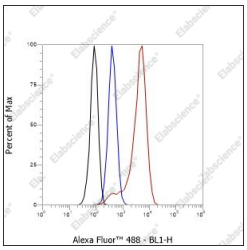
Immunohistochemistry of paraffin-embedded Human spleen using CD7 Monoclonal Antibody at dilution of 1:1000.



Immunohistochemistry of paraffin-embedded Human tonsil using CD7 Monoclonal Antibody at dilution of 1:1000.



Immunofluorescent analysis of (4% Paraformaldehyde) fixed Jurkat cells using anti-CD7 Monoclonal Antibody at dilution of 1:50.



Flow cytometric analysis of human CD7 expression on Jurkat cells. Cells were stained with purified anti-Human CD7, then a Alexa Fluor 488-conjugated second step antibody. The histogram were derived from events with the forward and side light-scatter characteristics of intact cells.

Preparation & Storage

Storage	Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles.
Shipping	Ice bag

Background

The CD7 antigen is a membrane-embedded glycoprotein with a molecular weight of 37-40 kDa and a member of the immunoglobulin supergene family. It plays an important role in T-cell and T-cell/B-cell interactions during early lymphoid development. CD7 is the earliest T-cell-associated molecule to appear in stem cells and prethymic stages and extends its expression all the way to the mature T cells. This molecule is also present on NK cells. In addition, the pluripotent bone marrow stem cells may express CD7. A subpopulation of AML, particularly those with monocytic or megakaryocytic differentiation, may express CD7. Lack of CD7 expression can be used for the detection of T-cell lymphoproliferative disorders, such as mycosis fungoides/Sezary syndrome and adult T-cell leukemia/lymphoma. However, normal and reactive T cells often demonstrate variable degree of CD7 loss.

Toll-free: 1-888-852-8623 Tel: 1-832-243-6086 Fax: 1-832-243-6017
Web: www.elabscience.com Email: techsupport@elabscience.com