



Rabbit Anti-CD53 antibody

SL13625R

Product Name:	CD53
Chinese Name:	CD53抗体
Alias:	AI323659; Antigen MOX44 identified by monoclonal; MRC-OX44; CD 53; CD53; CD53 antigen; CD53 antigen, isoform CRA_b; CD53 glycoprotein; Cd53 molecule; CD53 tetraspan antigen; CD53_HUMAN; Cell surface glycoprotein CD53; Leukocyte antigen MRC OX-44; Leukocyte surface antigen CD53; MOX 44; MOX44; OTTHUMP00000059505; Ox-44; OX44; RATOX44; Tetraspanin 25; Tetraspanin-25; Tetraspanin25; Transmembrane glycoprotein; TSPAN 25; Tspan-25; TSPAN25.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	24kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human CD53:65-160/219<Extracellular>
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	The CD53 antigen is a member of the tetraspanin membrane protein family that is

expressed in the lymphoid-myeloid lineage. The tetraspanin superfamily (CD9, CD37, CD53, CD63, CD81 and CD82) comprises a group of cell-surface proteins that are involved in cell activation and signal transduction as well as in cell adhesion, motility and metastasis. Tetraspanin transmembrane proteins have a metastasis suppressor effect by acting as cell motility brakes in tumor cells. Human neutrophils express high levels of CD53, an N-glycosylated pan-leukocyte antigen and the true homolog of the rat MRC-OX-44 antigen. CD53 is expressed on B cells, monocytes, macrophages, neutrophils, single (CD4 or CD8) positive thymocytes and peripheral T cells.

Function:

Required for efficient formation of myofibers in regenerating muscle at the level of cell fusion. May be involved in growth regulation in hematopoietic cells (By similarity).

Subunit:

Interacts with SCIMP.

Subcellular Location:

Membrane.

Tissue Specificity:

B-cells, monocytes, macrophages, neutrophils, single (CD4 or CD8) positive thymocytes and peripheral T-cells.

Similarity:

Belongs to the tetraspanin (TM4SF) family.

SWISS:

P19397

Gene ID:

963

Database links:

[Entrez Gene: 963](#) Human

[Omim: 151525](#) Human

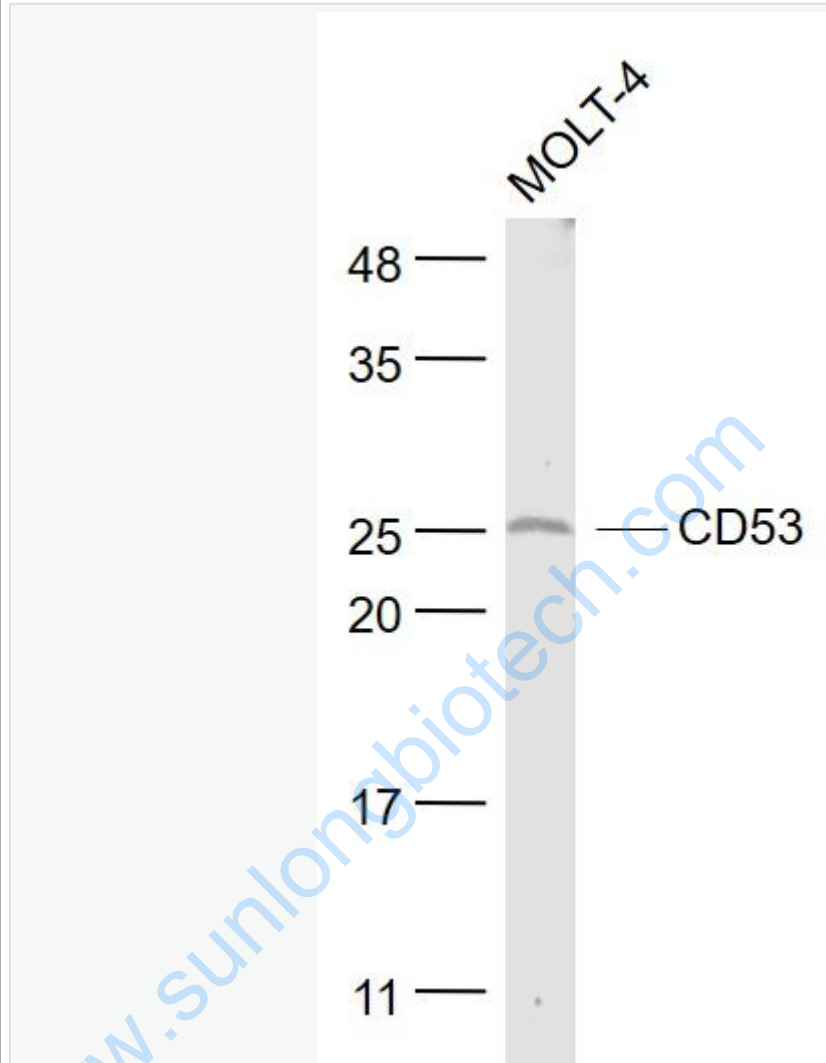
[SwissProt: P19397](#) Human

[Unigene: 443057](#) Human

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Picture:



Sample:

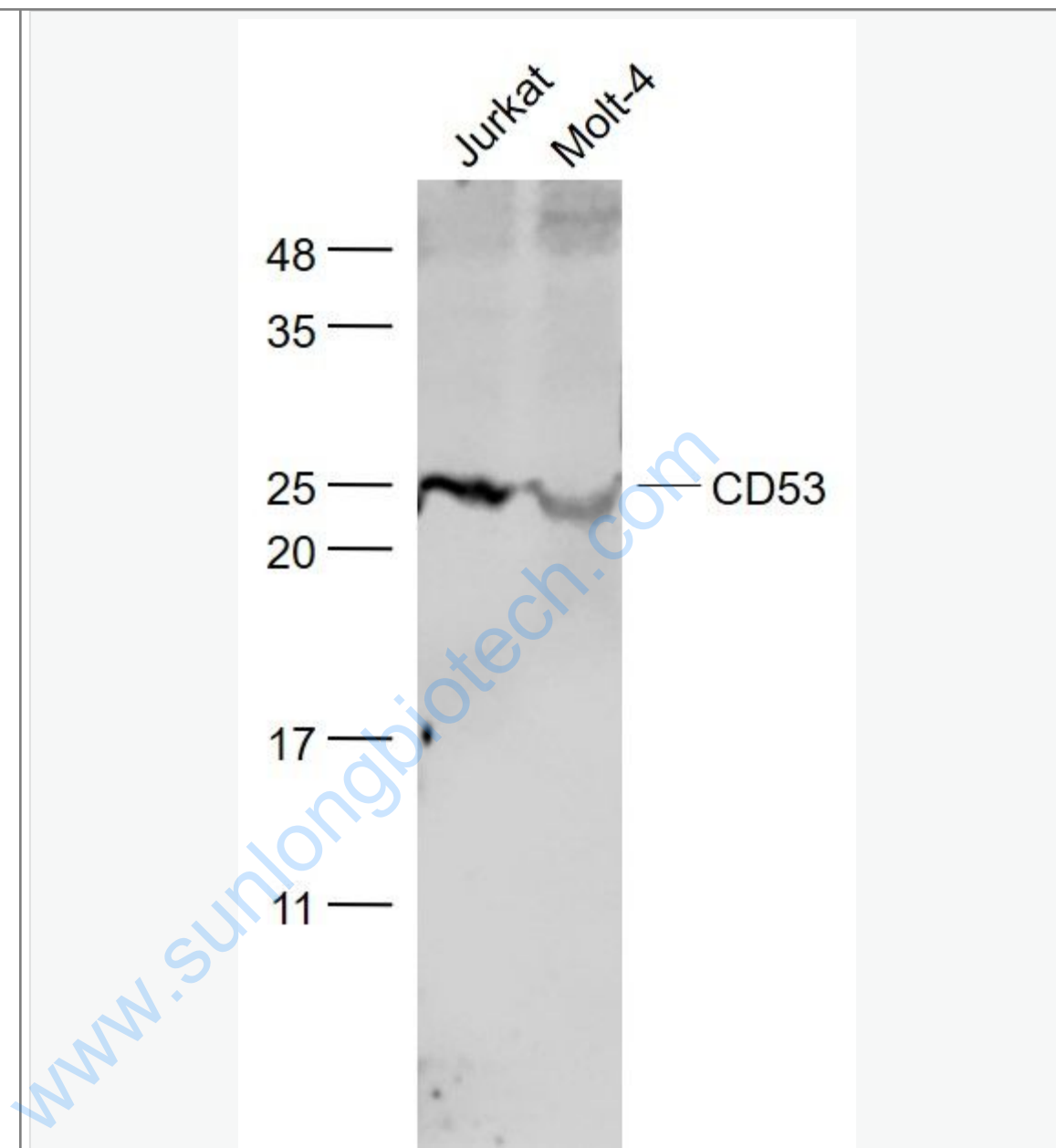
MOLT-4(Human) Cell Lysate at 30 ug

Primary: Anti- CD53 (SL13625R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 24 kD

Observed band size: 25 kD



Sample:

Jurkat(Human) Cell Lysate at 30 ug

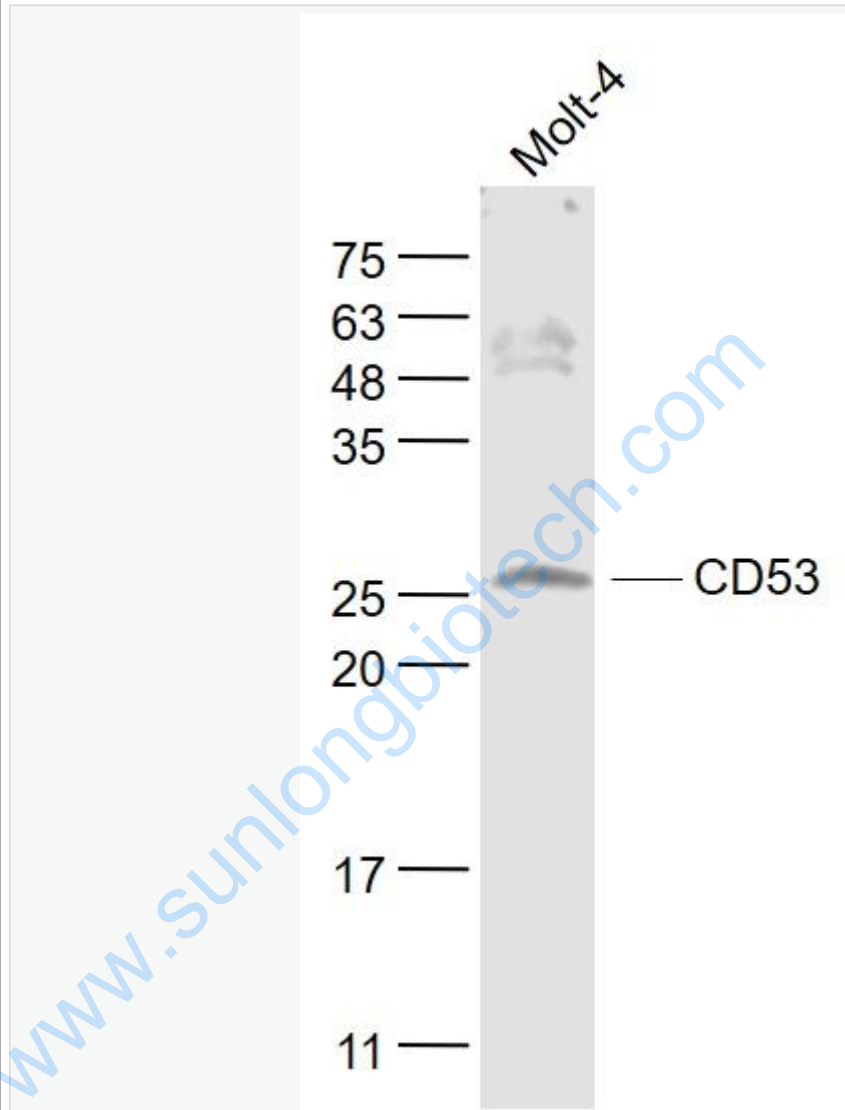
Molt-4(Human) Cell Lysate at 30 ug

Primary: Anti- CD53 (SL13625R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 24 kD

Observed band size: 24 kD



Sample:

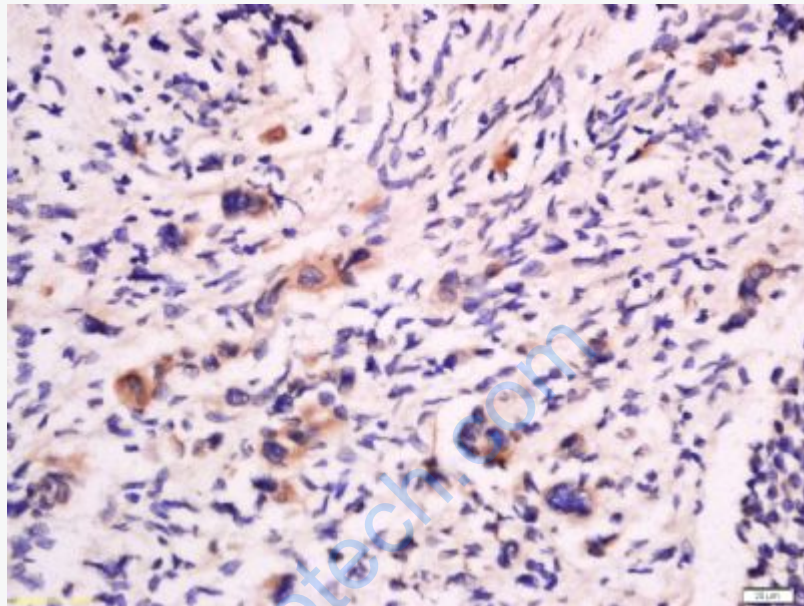
Molt-4(Human) Cell Lysate at 30 ug

Primary: Anti- CD53 (SL13625R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 24 kD

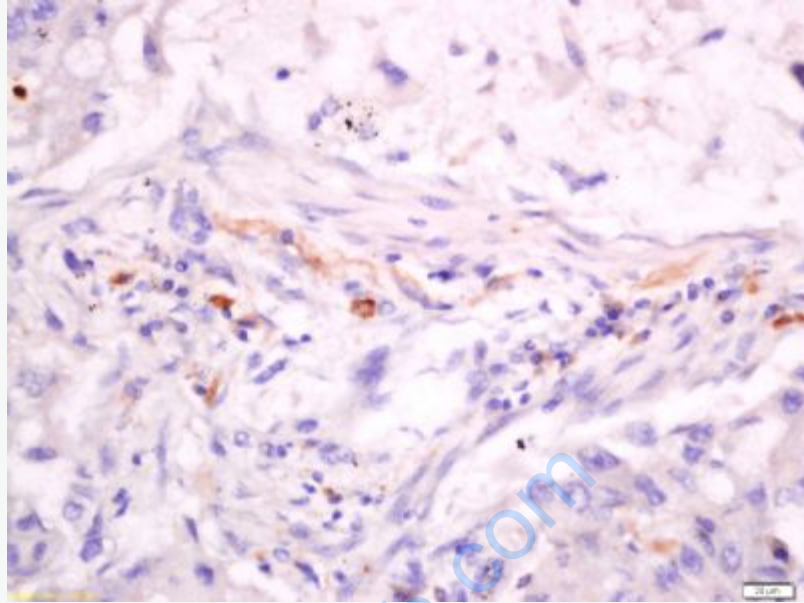
Observed band size: 26 kD



Tissue/cell: human colon cancer; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-CD53 Polyclonal Antibody, Unconjugated(SL13625R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Tissue/cell: human lung carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

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