SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-CD7 antibody

Catalog Number: SLM-60231R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Monoclonal
Clone No.:	B2D9
Target:	CD7
Immunogen:	KLH conjugated synthetic peptide derived from human CD7
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 IHC-P=1:50-200 IHC-F=1:50-200 IF=1:50-200 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human
Predicted MW.:	24kDa
Subcellular Location:	The cell membrane
Background:	This gene encodes a transmembrane protein which is a member of the immunoglobulin superfamily. This protein is found on thymocytes and mature T cells. It plays an essential role in T-cell interactions and also in T-cell/B-cell interaction during early lymphoid development. [provided by RefSeq, Jul 2008] **Subunit:** Interacts with SECTM1. **Subcellular Location:** Membrane; Single-pass type I membrane protein. **Similarity:** Contains 1 Ig-like (immunoglobulin-like) domain. **Database links:** **Entrez Gene:** 924 Human **Entrez Gene:** 12516 Mouse

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	Omim: 186820 Human **SwissProt:** P09564 Human **SwissProt:** P50283 Mouse **Unigene:** 36972 Human **Unigene:** 4100 Mouse CD7 is a 40 kDa glycoprotein that is a member of the Ig supergene family and is expressed in the vast majority of mature and immature T cells and T-cell leukemias, but is also expressed in NK cells, a small subset of normal B cells, and malignant B cells. If antibodies to other T-cell markers are ineffective, CD7 can be used to identify primitive T-cell tumors such as lymphoblastic leukemia.

[VALIDATION IMAGES]

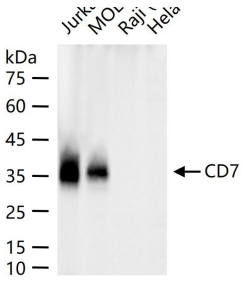


Figure 1. 25 ug total protein per lane of various lysates (see on figure) probed with CD7 monoclonal antibody, unconjugated (SLM-60231R) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min

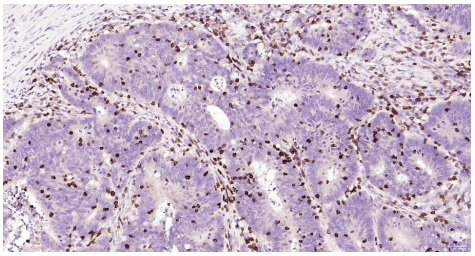


Figure 2. Paraformaldehyde-fixed, paraffin embedded Human Colon Cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with CD7 Monoclonal Antibody, Unconjugated(SLM-60231R) at 1:200 overnight at 4°C, followed by conjugation to the SP Kit (Rabbit, SP-0023) and DAB (C-0010) staining

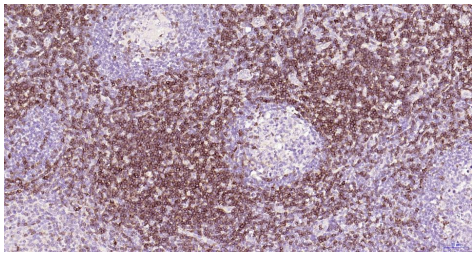


Figure 3. Paraformaldehyde-fixed, paraffin embedded Human Tonsil; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with CD7 Monoclonal Antibody, Unconjugated(SLM-60231R) at 1:200 overnight at 4°C, followed by conjugation to the SP Kit (Rabbit, SP-0023) and DAB (C-0010) staining

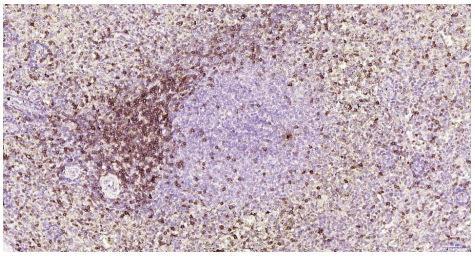


Figure 4. Paraformaldehyde-fixed, paraffin embedded Human Spleen; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with CD7 Monoclonal Antibody, Unconjugated(SLM-60231R) at 1:200 overnight at 4°C, followed by conjugation to the SP Kit (Rabbit, SP-0023) and DAB (C-0010) staining

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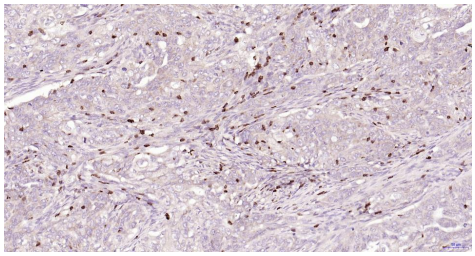


Figure 5. Paraformaldehyde-fixed, paraffin embedded Human Lung Cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with CD7 Monoclonal Antibody, Unconjugated(SLM-60231R) at 1:200 overnight at 4°C, followed by conjugation to the SP Kit (Rabbit, SP-0023) and DAB (C-0010) staining

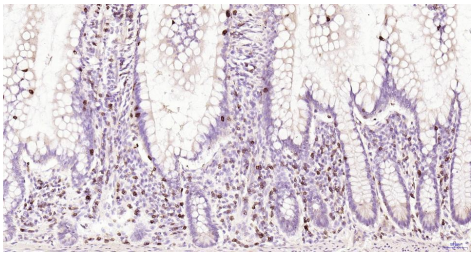


Figure 6. Paraformaldehyde-fixed, paraffin embedded Human Small Intestine; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with CD7 Monoclonal Antibody, Unconjugated(SLM-60231R) at 1:200 overnight at 4°C, followed by conjugation to the SP Kit (Rabbit, SP-0023) and DAB (C-0010) staining

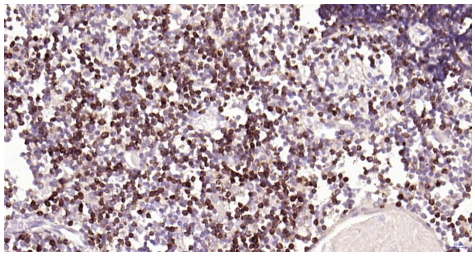


Figure 7. Paraformaldehyde-fixed, paraffin embedded Human Thymus; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with CD7 Monoclonal Antibody, Unconjugated(SLM-60231R) at 1:200 overnight at 4°C, followed by conjugation to the SP Kit (Rabbit, SP-0023) and DAB (C-0010) staining

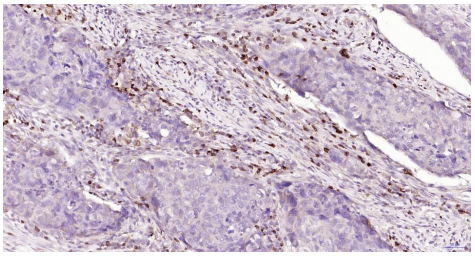


Figure 8. Paraformaldehyde-fixed, paraffin embedded Human Esophagus Cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with CD7 Monoclonal Antibody, Unconjugated(SLM-60231R) at 1:200 overnight at 4°C, followed by conjugation to the SP Kit (Rabbit, SP-0023) and DAB (C-0010) staining

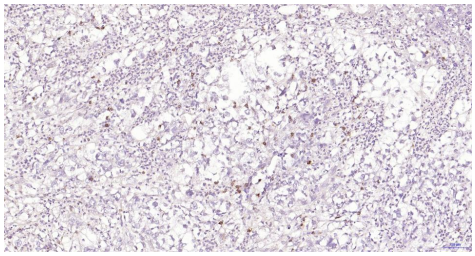


Figure 9. Paraformaldehyde-fixed, paraffin embedded Human Endometrium Cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with CD7 Monoclonal Antibody, Unconjugated(SLM-60231R) at 1:200 overnight at 4°C, followed by conjugation to the SP Kit (Rabbit, SP-0023) and DAB (C-0010) staining

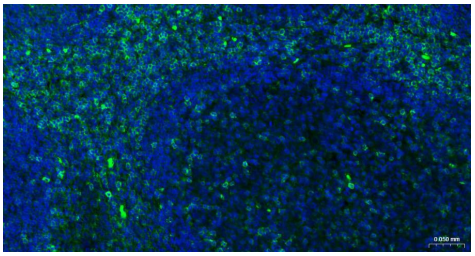


Figure 10. Paraformaldehyde-fixed, paraffin embedded Human Tonsil; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with CD7 Monoclonal Antibody, Unconjugated (SLM-60231R) at 1:200 overnight at 4°C. Followed by conjugated Goat Anti-Rabbit IgG antibody (green, SL0295G-BF488), DAPI (blue, C02-04002) was used to stain the cell nuclei

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