

Supplementary Table S1. Immunohistochemical profile and differential diagnoses of primary cutaneous lymphomas.

Cutaneous Lymphoma	Immunohistochemical Profile	Differential Diagnoses
MF/SS	CD3 ⁺ , CD4 ⁺ , CD5 ⁺ , CD8 ⁻ , CD45RO ⁺ , often loss of CD7, TIA-1 ⁻	LyP (type B) CD8 ⁺ AECTCL Gamma/delta T-cell lymphoma
LyP	CD3 ⁺ , variable CD4/CD8, CD30 ⁺ (strong, >75%)	PC ALCL Infectious skin diseases MF
PC ALCL	CD3 ⁺ , CD4 ⁺ , CD30 ⁺ (diffuse, >75%), ALK ⁻ , EMA ⁺	LyP Systemic ALCL CD30 ⁺ MF
SPTCL	CD3 ⁺ , CD4 ⁻ , CD8 ⁺ , cytotoxic markers (TIA-1, granzyme B, perforin), β F1 ⁺ , CD56 ⁻	Lupus panniculitis Gamma/delta T-cell lymphoma Extranodal NK/T-cell lymphoma
PC gamma/delta T-cell lymphoma	CD3 ⁺ , CD4 ⁻ , variable CD8, cytotoxic markers, TCR $\gamma\delta$ ⁺ , CD56 ⁺ , β F1 ⁻	SPTCL Extranodal NK/T-cell lymphoma
CD8 ⁺ AECTCL	CD3 ⁺ , CD4 ⁻ , CD8, CD45RO ⁺ , CD45RO ⁻ , cytotoxic markers, β F1 ⁺	LyP (type D) MF (CD8 ⁺ variant) Viral exanthem
CD4 ⁺ SMTLPD	CD3 ⁺ , CD4 ⁺ , CD7 ⁻ , CD8 ⁻ , CD30 ⁻ , follicular helper markers (PD-1, ICOS, BCL6)	SPTCL MF (tumor stage) Pseudolymphoma
PTCL, NOS	CD3 ⁺ , variable CD4/CD8, variable cytotoxic markers, often loss of pan-T markers	MF CD8 ⁺ AECTCL
PCMZL	CD20 ⁺ , CD79a ⁺ , CD5 ⁻ , CD10 ⁻ , CD23 ⁻ , BCL2 ⁺ , BCL6 ⁻ , light chain restriction, cyclin-D1 ⁻	Pseudolymphoma PCFCL
PCFCL	CD20 ⁺ , CD79a ⁺ , CD5 ⁻ , variable CD10, CD43 ⁻ , BCL2 ⁻ , BCL6 ⁺ , MUM-1 ⁻	Pseudolymphoma PCMZL
PCDLBCL, LT	CD20 ⁺ , CD79a ⁺ , CD5 ⁻ , CD10 ⁻ , BCL2 ⁺ , BCL6 ⁺ , MUM1 ⁺ , high Ki-67	PCFCL PCMZL
EBV ⁺ MCU	Variable CD20 and CD79, CD10 ⁻ , CD30 ⁺ , BCL6, EBV-encoded RNA (EBER) ⁺ , PAX5 ⁺	EBV+PCDLBCL EBV+Hodgkin lymphoma Lymphomatoid granulomatosis

* ALCL, anaplastic large cell lymphoma; CD4⁺ SMTLPD, CD4⁺ small-medium T-cell lymphoproliferative disorder; CD8⁺ AECTCL, CD8⁺ aggressive epidermotropic cytotoxic T-cell lymphoma; EBV, Epstein-Barr virus; LyP, lymphomatoid papulosis; MCU, mucocutaneous ulcer; MF/SS, mycosis fungoides / Sézary syndrome; NK, natural killer; PC, primary cutaneous; PCMZL, primary cutaneous marginal zone lymphoma; PCDLBCL, LT, primary cutaneous diffuse large B-cell lymphoma, leg type; PCFCL, primary cutaneous follicle center lymphoma; PTCL, NOS, peripheral T-cell lymphoma, not otherwise specified; SPTCL, subcutaneous panniculitis-like T-cell lymphoma