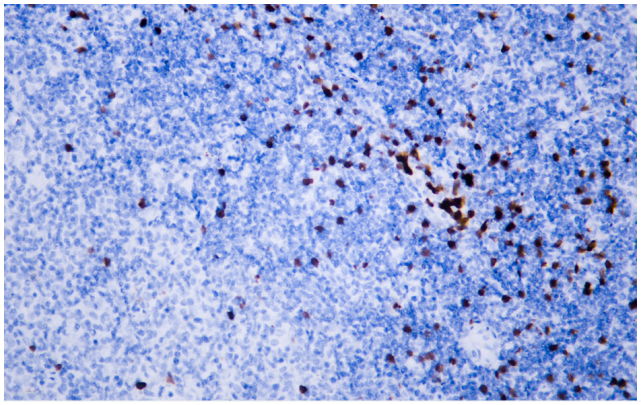
TCL1 mouse mAb(ABT378)

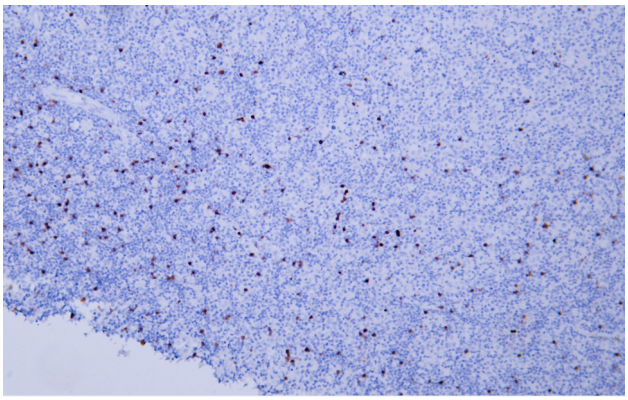
Catalog No	BYab-31328
Isotype	IgG
Reactivity	Human
Applications	IHC;IF
Gene Name	TCL1A TCL1
Protein Name	TCL1
Immunogen	Synthesized peptide derived from human TCL1
Specificity	The antibody can specifically recognize human TCL1 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.154% sodium azide.
Source	Mouse, Monoclonal/IgG2b, Kappa
Purification	The antibody was affinity-purified from mouse ascites by affinity-chromatography using specific immunogen.
Dilution	IHC-p 1:100-500, IF 1:100-500
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	T-cell leukemia/lymphoma protein 1A (Oncogene TCL-1;Oncogene TCL1;Protein p14 TCL1)
Observed Band	
Cell Pathway	Cytoplasm . Nucleus . Microsome . Endoplasmic reticulum . Microsomal fraction.
Tissue Specificity	Restricted in the T-cell lineage to immature thymocytes and activated peripheral lymphocytes. Preferentially expressed early in T- and B-lymphocyte differentiation.
Function	disease:Chromosomal aberrations activating TCL1A are found in chronic T-cell leukemias (T-CLL). Translocation t(14;14)(q11;q32); translocation t(7;14)(q35;q32); inversion inv(14)(q11;q32) that involves the T-cell receptor alpha/delta locuses.,function:Enhances the phosphorylation and activation of AKT1, AKT2 and AKT3. Promotes nuclear translocation of AKT1. Enhances cell proliferation, stabilizes mitochondrial membrane potential and promotes cell survival.,similarity:Belongs to the TCL1 family.,subcellular location:Microsomal fraction.,subunit:Homodimer. Interacts with AKT1, AKT2 and AKT3 (via PH domain). Interacts with PNPT1; the interaction has no effect on PNPT1 exonuclease activity.,tissue specificity:Restricted in the T-cell lineage to immature

	thymocytes and activated peripheral lymphocytes. Preferentially expressed early in T- and B-lymphocyte differentiation.,
Background	Overexpression of the TCL1 gene in humans has been implicated in the development of mature T cell leukemia, in which chromosomal rearrangements bring the TCL1 gene in close proximity to the T-cell antigen receptor (TCR)-alpha (MIM 186880) or TCR-beta (MIM 186930) regulatory elements (summarized by Virgilio et al., 1998 [PubMed 9520462]). In normal T cells TCL1 is expressed in CD4-/CD8- cells, but not in cells at later stages of differentiation. TCL1 functions as a coactivator of the cell survival kinase AKT (MIM 164730) (Laine et al., 2000 [PubMed 10983986]).[supplied by OMIM, Jul 2010],
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Human diffuse large B-cell lymphoma tissue was stained with Anti-TCL1 (ABT378) Antibody



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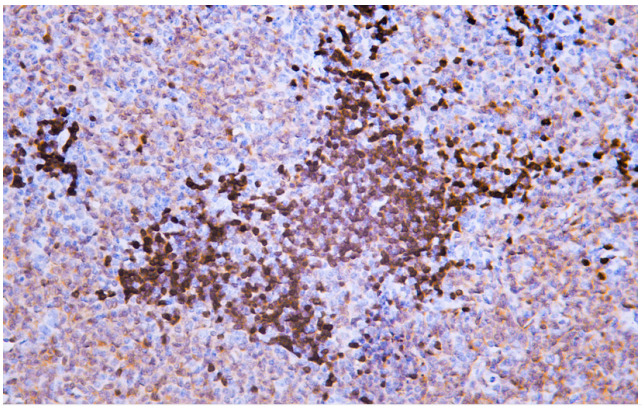
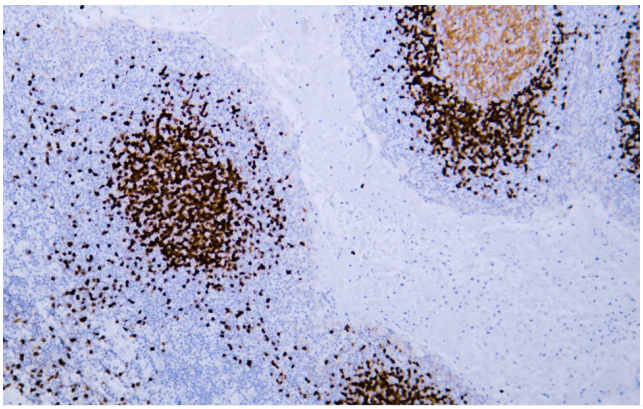


Human follicular lymphoma tissue was stained with Anti-TCL1 (ABT378) Antibody



Human tonsil tissue was stained with Anti-TCL1 (ABT378) Antibody