

## Product datasheet for **TA327742**

### Tcl1 (TCL1A) Mouse Monoclonal Antibody [Clone ID: MRQ-7]

#### Product data:

|                       |  |
|-----------------------|--|
| Product Type:         | Primary Antibodies   |
| Clone Name:           | MRQ-7  |
| Applications:         | IHC  |
| Recommended Dilution: | IHC: 1:100 - 1:500   |
| Reactivity:           | Human  |
| Host:                 | Mouse  |
| Isotype:              | IgG  |
| Clonality:            | Monoclonal   |
| Formulation:          | This antibody is supplied as cell culture supernatant diluted in tris buffered saline, pH 7.3-7.7, with 1% BSA and <0.1% sodium azide. |
| Conjugation:          | Unconjugated   |
| Storage:              | Store at -20°C as received.  |
| Stability:            | Stable for 12 months from date of receipt.   |
| Gene Name:            | T-cell leukemia/lymphoma 1A  |
| Database Link:        | <a href="#">NP_068801</a><br><a href="#">Entrez Gene 8115 Human</a><br><a href="#">P56279</a>  |
| Synonyms:             | TCL1   |

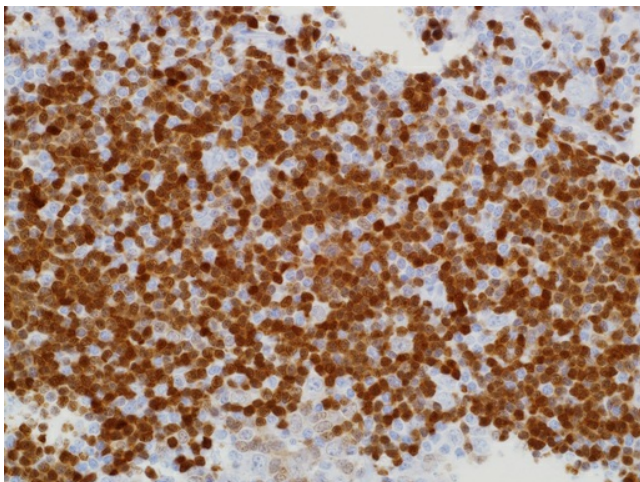


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**Note:** T-cell leukemia/lymphoma protein 1 (TCL1, TCL1A, p14TCL1) is a 14 kDa product of the TCL1 gene that is involved in T-cell prolymphocytic leukemia (T-PLL). TCL1 protein is normally found in the nucleus and cytoplasm of lymphoid lineage cells during early embryogenesis. Chromosomal translocations may lead to overexpression of TCL1, resulting in T-cell leukemia and B-cell lymphoma. TCL1 binds to a novel site in the pleckstrin homology (PH) domain, resulting in activation and nuclear translocation of Akt by overexpressed TCL1 which may promote an anti-apoptotic response; this may normally serve to promote growth during development but may lead to malignancy when TCL1 is overexpressed. TCL1 is expressed in differentiated B-cells under both reactive and neoplastic conditions, antigen committed B-cells, and in germinal center B-cells. TCL1 is down-regulated in the latest stage of B-cell differentiation. TCL1 is overexpressed in Burkitt lymphoma, the majority of AIDS-related non-Hodgkin lymphoma-designated immunoblastic plasmacytoid lymphoma, lymphoblastic lymphoma, chronic lymphocytic leukemia, mantle cell lymphoma, follicular lymphoma, diffuse large B-cell lymphoma, and primary cutaneous B-cell lymphoma. Therefore, the most useful application of anti-TCL1 is the discrimination of B-cell lymphomas from T-cell lymphomas, CD30+ anaplastic large cell lymphomas, multiple myeloma, and marginal zone B-cell lymphoma.

**Protein Families:** Druggable Genome

**Product images:**



Immunohistochemistry staining of Paraffin Tonsil, B-cell lymphoma tissue by TCL1 antibody (dilution: 1:100 - 1:500; visualization of staining: Cytoplasmic, nuclear)