

## Anti-Cyclin T1 Antibody Picoband® (monoclonal, 3B7) HRP Conjugated

Catalog Number: M02703-HRP

### About CCNT1

Cyclin-T1 is a protein that in humans is encoded by the CCNT1 gene. This gene encodes a member of the highly conserved cyclin C subfamily. The encoded protein tightly associates with cyclin-dependent kinase 9, and is a major subunit of positive transcription elongation factor b (p-TEFb). In humans, there are multiple forms of positive transcription elongation factor b, which may include one of several different cyclins along with cyclin-dependent kinase 9. The complex containing the encoded cyclin and cyclin-dependent kinase 9 acts as a cofactor of human immunodeficiency virus type 1 (HIV-1) Tat protein, and is both necessary and sufficient for full activation of viral transcription. This cyclin and its kinase partner are also involved in triggering transcript elongation through phosphorylation of the carboxy-terminal domain of the largest RNA polymerase II subunit. Overexpression of this gene is implicated in tumor growth. Alternative splicing results in multiple transcript variants.

### Overview

Product Name	Anti-Cyclin T1 Antibody Picoband® (monoclonal, 3B7) HRP Conjugated
Reactive Species	Human, Monkey
Application	WB, IHC, ELISA
Clonality	Monoclonal 3B7
Formulation	Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na <sub>2</sub> HPO <sub>4</sub> .
Storage Instructions	At -20°C for one year from date of receipt. Avoid repeated freezing and thawing.
Host	Mouse
Uniprot ID	O60563

### Technical Details

Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human Cyclin T1, different from the related mouse sequence by one amino acid.
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Mouse IgG2b
Form	Liquid
Concentration	0.5 mg/mL
Purification	Immunogen affinity purified.
Conjugate	HRP

**Suggested Dilutions**

Western blot, Optimal dilutions should be determined by end users.  
Immunohistochemistry (Paraffin-embedded Section), Optimal dilutions should be determined by end users.  
ELISA, Optimal dilutions should be determined by end users.

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