

## Product datasheet for **TA328012**

### **KAP1 (TRIM28) Mouse Monoclonal Antibody [Clone ID: 20A1]**

#### **Product data:**

Product Type:	Primary Antibodies
Clone Name:	20A1
Applications:	IF, WB
Recommended Dilution:	WB, IF, ChIP
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1, kappa
Clonality:	Monoclonal
Immunogen:	Not provided
Formulation:	This antibody is provided in phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide at 0.5 mg/ml.
Concentration:	lot specific
Purification:	The antibody was purified by affinity chromatography.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	110 kD
Gene Name:	tripartite motif containing 28
Database Link:	<a href="#">NP_005753</a> <a href="#">Entrez Gene 10155 Human</a> <a href="#">Q13263</a>



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**Background:**

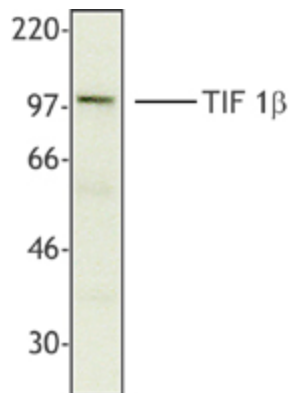
TIF $\beta$  (transcription intermediary factor 1-beta) is an 88 kD member of the tripartite motif family. This protein contains three zinc binding domains, a RING domain, a B-box type 1 and type 2 domain, and a coiled-coil region. TIF $\beta$  is found in the nucleus and associates with specific chromatin regions. This protein forms a complex with KRAB-domain transcription factors and recruits setdb1 to histone 3 to increase KRAB-mediated transcriptional repression. TIF1 $\beta$  has been reported to interact with setdb1 and cbx3 proteins. Studies using knockout mice reveal the important function of TIF1 $\beta$  in regulating genomic imprinting, T cell activation, and T cell tolerance.

**Synonyms:**

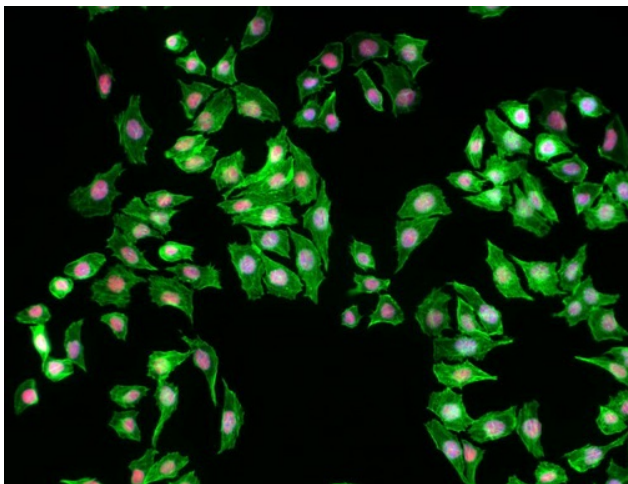
KAP1; PPP1R157; RNF96; TF1B; TIF1B

**Protein Families:**

Protein Kinase, Stem cell - Pluripotency, Transcription Factors

**Product images:**

HepG2 nuclear extract was resolved by electrophoresis, transferred to nitrocellulose and probed with monoclonal anti-TIF1 $\beta$  antibody. Proteins were visualized using a goat anti-mouse secondary conjugated to HRP and a chemiluminescence detection system.



HeLa cells were intracellularly stained with 5 ug/ml of purified anti-TIF1 $\beta$  (KAP-1, TRIM28) (clone 20A1) in blocking buffer overnight at 4 $^{\circ}$ C, followed by DyLight<sup>™</sup> 594 anti-mouse IgG (red) and Alexa Fluor<sup>®</sup> 488 Phalloidin (green) staining for 20 minutes. Nuclei were counterstained with DAPI (blue). The image was captured with 20X objective.