

Purified anti-TIF1 β (KAP-1, TRIM28) Phospho (Ser473) Antibody

Catalog# / Size	654101 / 25 μ g 654102 / 100 μ g
Clone	11G10SC
Regulatory Status	RUO
Other Names	TRIM28 pS473, KAP-1 pS473
Isotype	Mouse IgG1, κ
Description	Transcriptional intermediary factors (TIFs) are a group of transcriptional coactivators and corepressors that regulate gene expression by modulating chromatin structure and assembly of transcription initiation complexes. TIF1 β is a member of the TIF1 subfamily of chromatin-associated TIFs that play a key role in many developmental and physiological processes. Studies using knockout mice reveal the important function of TIF1 β in regulating genomic imprinting, T cell activation, and T cell tolerance.

Product Details

Reactivity	Human
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	Modified peptide: VKRSRpSGEGEVC.
Formulation	This antibody is provided in phosphate-buffered solution, pH 7.2, containing 0.05% sodium azide.
Concentration	0.5 mg/mL
Storage & Handling	Upon receipt, store undiluted between 2°C and 8°C.
Application	WB - Quality tested ICC - Verified
Recommended Usage	Each lot of this antibody is quality control tested by Western blotting . For Western blotting, the suggested use of this reagent is 0.5 - 1.0 μ g per mL. It is recommended that the reagent be titrated for optimal performance for each application.
RRID	AB_2561781 (BioLegend Cat. No. 654101) AB_2561782 (BioLegend Cat. No. 654102)

Antigen Details

Structure	An N-terminal RING-B box coiled coil (RBCC) domain most likely attributes to intermolecular structure, while two characteristic chromatin-targeting domains, a plextrin homology (PH) finger motif and bromodomain, are found in the C-terminus.
Distribution	Nucleus
Function	TIF1 β acts as a transcriptional repressor by modulating histone deacetylation, histone H3 Ly-9 methylation, and recruitment of HP1 proteins.
Interaction	TIF1 β was shown to form homo-oligomers <i>in vitro</i> , but does not form hetero-oligomers with TIF1 α or TIF1 γ .
Biology Area	Cell Biology, Chromatin Remodeling/Epigenetics, Transcription Factors
Molecular Family	Phospho-Proteins
Antigen References	1. Messerschmidt DM, <i>et al.</i> 2012. <i>Science</i> 335:1499.

Gene ID [21849](#)

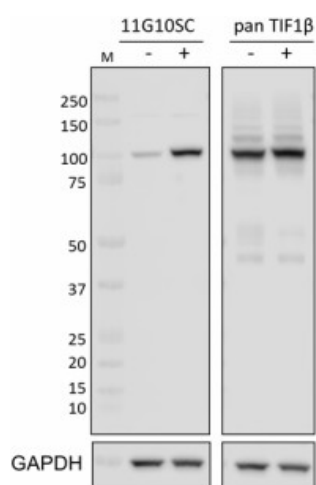
Related Protocols

[Immunocytochemistry Staining Protocol](#)
[Western Blotting Protocol](#)

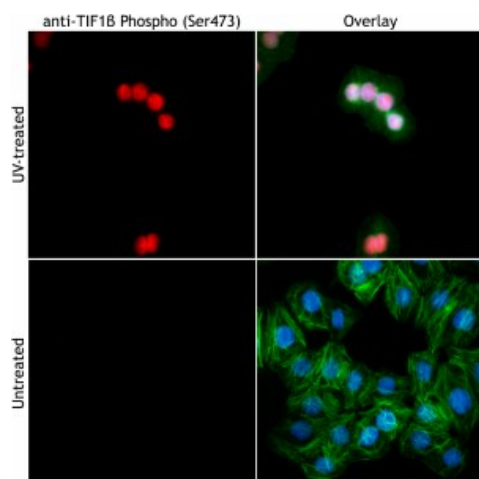
Other Formats

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Product Data



Total cell lysates (15 μ g total protein) from HEK293T cells and untreated (-) or treated (+) with UV radiation were resolved by 4-12% Bis-Tris gel electrophoresis, transferred to a PVDF membrane, and probed with 1.0 μ g/mL (1:500 dilution) of Purified anti-TIF1 β (KAP-1, TRIM28) Phospho (Ser473) Antibody, clone 11G10SC, overnight at 4°C. Proteins were visualized by chemiluminescence detection using HRP goat anti-mouse IgG Antibody (Cat. No. 405306) at a 1:3000 dilution. Purified anti-TIF1 β (KAP-1, TRIM28) Antibody, clone 20A1 (Cat. 619302), was used as a pan TIF1 β loading control at 1:50000 dilution. Direct-Blot™ HRP anti-GAPDH Antibody (Cat. No. 607904) was used as a loading control at a 1:50000 dilution (lower). Lane M: Molecular Weight marker.



HEK293 cell extracts untreated (lane 1) and treated with UV radiation (lane 2) were resolved by electrophoresis, transferred to nitrocellulose, and probed with anti-TIF1 β phosphorylated (Ser473) antibody (clone 11G10SC). Proteins were visualized using a goat anti-mouse secondary conjugated to HRP and a chemiluminescence detection system.

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