

# Product Data Sheet

## Purified anti-TIF1 $\beta$ (KAP-1, TRIM28) Phospho (Ser473)

**Catalog # / Size:** 644602 / 100  $\mu$ l

**Clone:** Poly6446

**Isotype:** Rabbit polyclonal

**Immunogen:** Modified peptide

**Reactivity:** Human, Mouse

**Preparation:** The antibody was purified by antigen-affinity chromatography.

**Formulation:** This antibody is provided in phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 50% glycerol.

**Storage:** Upon receipt, store frozen at -20°C.

### Applications:

**Applications:** WB - *Quality tested*  
IF - *Validated*

**Recommended Usage:** Each lot of this antibody is quality control tested by Western blotting. Western blotting, suggested working dilution(s): Use 5-10  $\mu$ l per 5 ml antibody dilution for each mini-gel. It is recommended that the reagent be titrated for optimal performance for each application.

**Application Notes:** Additional reported applications include: immunofluorescence<sup>3</sup>.

**Application References:** 1. Chikuma S, *et al.* 2012. *Nat. Immunol.* doi: 10.1038/ni.2293. PubMed  
2. Zhou XF, *et al.* 2012. *PNAS.* 109:20083. PubMed  
3. Chang CW, *et al.* 2008 *BMC Mol. Biol.* 9:61. (IF)

**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 beta 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 $\beta$  in regulating genomic imprinting, T cell activation, and T cell tolerance.

**Antigen References:** 1. Abrink, *et al.* 2001. *Proc. Natl. Acad. Sci.* 98:1422.  
2. Change, *et al.* 2008. *BMC Mol. Biology* 9:1471.  
1. Messerschmidt DM, *et al.* 2012. *Science* 335:1499.  
2. Chikuma S, *et al.* 2012. *Nat. Immunol.* 13:596.

**Related Products:** **Product**

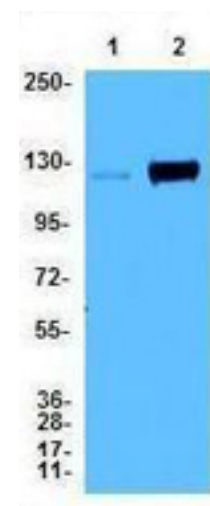
HRP Donkey anti-rabbit IgG (minimal x-reactivity)

**Clone**

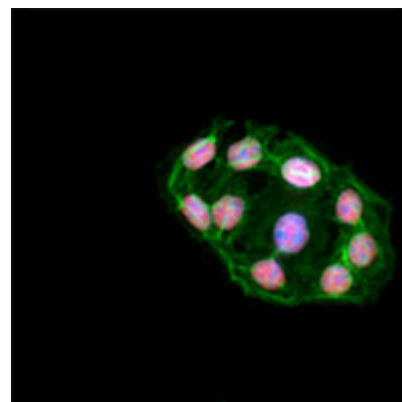
Poly4064

**Application**

ELISA, IHC, WB



*HeLa cell extracts untreated (lane 1) and treated with 10 Gy radiation (lane 2) were resolved by electrophoresis, transferred to nitrocellulose, and probed with anti-TIF1 $\beta$  Phospho (Ser473) antibody. Proteins were visualized using a donkey anti-rabbit secondary conjugated to HRP and a chemiluminescence detection system.*



*HeLa cells were stained with purified anti-TIF1 $\beta$  Phospho (Ser 473) (Poly6446) antibody, followed by staining with DyLight<sup>®</sup> 594 conjugated goat anti-rabbit IgG (red) antibody. Actin filaments were labeled in green. Nuclei were stained with DAPI (blue).*



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