

**Tristetraprolin (D1I3T) Rabbit mAb**

**Orders:** 877-616-CELL (2355)  
orders@cellsignal.com

**Support:** 877-678-TECH (8324)

**Web:** info@cellsignal.com  
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

**For Research Use Only. Not for Use in Diagnostic Procedures.**

<b>Applications:</b> W	<b>Reactivity:</b> H M R	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 40-48	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #P26651	<b>Entrez-Gene Id:</b> 7538
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**Product Usage Information****Application**

Western Blotting

**Dilution**

1:1000

**Storage**

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

**Specificity/Sensitivity**

Tristetraprolin (D1I3T) Rabbit mAb recognizes endogenous levels of total Tristetraprolin protein.

**Source / Purification**

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala235 of human tristetraprolin protein.

**Background**

Tristetraprolin (TTP), also known as NUP475, G0S24, RNF162A, TIS11, and ZFP36, is a CCCH tandem zinc-finger protein that binds to adenosine and uridine (AU)-rich elements (AREs) within 3'-untranslated regions of mRNA and leads to their rapid degradation (1-6). Expression of TTP is rapidly induced by mitogens and growth factors including insulin, phorbol ester, cytokines, and lipopolysaccharide (LPS). In addition, numerous phosphorylation sites on TTP can regulate its stability, nuclear to cytosolic trafficking, as well as controlling its ARE-binding activity. Many of the target mRNAs for TTP, such as TNF-α, have critical roles in inflammation and cancer (2), and mice deficient in TTP develop a systemic autoimmune inflammatory syndrome along with excessive TNF-α levels (7). Furthermore, suppression of TTP expression has been identified as a negative prognostic indicator for some cancers (8).

**Background References**

1. Brooks, S.A. and Blakeshear, P.J. *Biochim Biophys Acta* 1829, 666-79.
2. Sanduja, S. et al. (2012) *Front Biosci (Landmark Ed)* 17, 174-88.
3. Lai, W.S. et al. (1990) *J Biol Chem* 265, 16556-63.
4. DuBois, R.N. et al. (1990) *J Biol Chem* 265, 19185-91.
5. Varnum, B.C. et al. (1989) *Oncogene* 4, 119-20.
6. Heximer, S.P. and Forsdyke, D.R. *DNA Cell Biol* 12, 73-88.
7. Taylor, G.A. et al. (1996) *Immunity* 4, 445-54.
8. Brennan, S.E. et al. (2009) *Cancer Res* 69, 5168-76.

**Species Reactivity**

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

**Western Blot Buffer**

**IMPORTANT:** For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

**Applications Key**

**W:** Western Blotting

**Cross-Reactivity Key**

**H:** Human **M:** Mouse **R:** Rat

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