

## Product datasheet for **TA341616**

### Twinkle (TWNK) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	The immunogen for anti-PEO1 antibody: synthetic peptide directed towards the middle region of human PEO1. Synthetic peptide located within the following region: GVFRKFATDNNCHVTLVIHPRKEDDDKELQTASIFGSAKASQEADNVLIL
Formulation:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose. <i>Note that this product is shipped as lyophilized powder to China customers.</i>
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	77 kDa
Gene Name:	chromosome 10 open reading frame 2
Database Link:	<a href="#">NP_068602</a> <a href="#">Entrez Gene 56652 Human</a> <a href="#">Q96RR1</a>



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**Background:**

This gene encodes a hexameric DNA helicase which unwinds short stretches of double-stranded DNA in the 5' to 3' direction and, along with mitochondrial single-stranded DNA binding protein and mtDNA polymerase gamma, is thought to play a key role in mtDNA replication. The protein localizes to the mitochondrial matrix and mitochondrial nucleoids. Mutations in this gene cause infantile onset spinocerebellar ataxia (IOSCA) and progressive external ophthalmoplegia (PEO) and are also associated with several mitochondrial depletion syndromes. Alternative splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Aug 2009]

**Synonyms:**

ATXN8; IOSCA; MTDP57; PEO; PEO1; PEOA3; PRLT55; SANDO; SCA8; TWINKL

**Note:**

Immunogen Sequence Homology: Dog: 100%; Pig: 100%; Rat: 100%; Horse: 100%; Human: 100%; Mouse: 100%; Bovine: 100%; Rabbit: 100%; Guinea pig: 100%; Zebrafish: 93%

**Protein Families:**

Druggable Genome

**Product images:**


WB Suggested Anti-PEO1 Antibody Titration: 0.2-1 ug/ml; ELISA Titer: 1:312500; Positive Control: Jurkat cell lysate


**Anti-PEO1 Western Blot & Peptide Block Validation**

Lysate: HeLa Cell

Lane A: Primary Antibody  
Lane B: Primary Antibody + Blocking Peptide

Primary Antibody Concentration: 1.0 µg/ml  
Peptide Concentration: 5.0 µg/ml  
Lysate Quantity: 25 µg/lane  
Gel Concentration: 12%

Host: Rabbit; Target Name: PEO1; Sample Tissue: HeLa; Lane A: Primary Antibody; Lane B: Primary Antibody + Blocking Peptide; Primary Antibody Concentration: 1 ug/ml; Peptide Concentration: 5.0 ug/ml; Lysate Quantity: 25ug/lane/lane; Gel Concentration: 12% C1