

For Research Use Only

# Twinkle/PEO1 Polyclonal antibody

Catalog Number: 13435-1-AP **7 Publications**



## Basic Information

<b>Catalog Number:</b> 13435-1-AP	<b>GenBank Accession Number:</b> BC033762	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 200 µg/ml by Nanodrop and 133 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 56652	<b>Recommended Dilutions:</b> WB 1:500-1:2000 IHC 1:50-1:500
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q96RR1	
<b>Isotype:</b> IgG	<b>Full Name:</b> chromosome 10 open reading frame 2	
<b>Immunogen Catalog Number:</b> AG4239	<b>Calculated MW:</b> 684 aa, 77 kDa	
	<b>Observed MW:</b> 60 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, ELISA	<b>Positive Controls:</b> WB : HeLa cells, Jurkat cells IHC : mouse skeletal muscle tissue,
<b>Cited Applications:</b> WB	
<b>Species Specificity:</b> human, mouse, rat	
<b>Cited Species:</b> human, mouse	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## Background Information

Twinkle, also named as C10orf2, PEO1, is a 684 amino acid protein, which forms multimers in vitro, including hexamers. Twinkle colocalizes with mtDNA in mitochondrial nucleoids, a nucleoproteins complex consisting of a number of copies of proteins associated with mtDNA, probably involved in mtDNA maintenance and expression. Twinkle involves in mitochondrial DNA (mtDNA) metabolism and could function as an adenine nucleotide-dependent DNA helicase. Twinkle exists various isoform and molecular weight of isoform is 60 kDa.

## Notable Publications

Author	Pubmed ID	Journal	Application
Li Shu	33665835	EMBO J	
Feilong Meng	36039763	Nucleic Acids Res	WB
H Li	26250910	Cell Death Differ	WB

## Storage

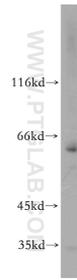
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

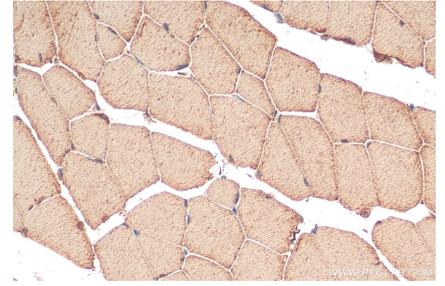
## Selected Validation Data



HeLa cells were subjected to SDS PAGE followed by western blot with 13435-1-AP (Twinkle antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse skeletal muscle tissue slide using 13435-1-AP (Twinkle antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse skeletal muscle tissue slide using 13435-1-AP (Twinkle antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).