

For Research Use Only

# Twinkle/PEO1 Polyclonal antibody

Catalog Number: 13435-1-AP

6 Publications



## Basic Information

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

## Applications

|  |   |
|--|---|
| <b>Tested Applications:</b><br>IHC, WB, ELISA  | <b>Positive Controls:</b><br>WB : HeLa cells, Jurkat cells<br>IHC : mouse skeletal muscle tissue, |
| <b>Cited Applications:</b><br>WB   |   |
| <b>Species Specificity:</b><br>human, mouse, rat   |   |
| <b>Cited Species:</b><br>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

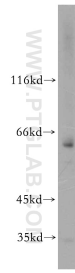
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

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

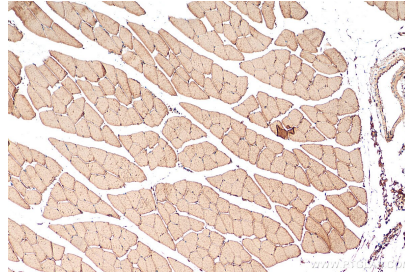
For technical support and original validation data for this product please contact:  
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E: proteintech@ptglab.com  
W: ptglab.com

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

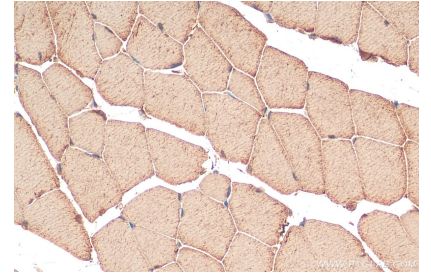
## Selected Validation Data



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).