

For Research Use Only

# TOE1 Polyclonal antibody

Catalog Number: 16203-1-AP

Featured Product

2 Publications



## Basic Information

### Catalog Number:

16203-1-AP

### Size:

150ul, Concentration: 500 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG9172

### GenBank Accession Number:

BC009364

### GeneID (NCBI):

114034

### UNIPROT ID:

Q96GM8

### Full Name:

target of EGR1, member 1 (nuclear)

### Calculated MW:

510 aa, 57 kDa

### Observed MW:

57 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:1000-1:5000

IHC 1:50-1:500

IF/ICC 1:200-1:800

## Applications

### Tested Applications:

WB, IHC, IF/ICC, ELISA

### Cited Applications:

WB, IF

### Species Specificity:

human, mouse

### Cited Species:

human, mouse

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

**WB** : HEK-293 cells, mouse thymus tissue, HeLa cells, K-562 cells, Jurkat cells

**IHC** : human breast cancer tissue, human colon cancer tissue

**IF/ICC** : HeLa cells,

## Background Information

TOE1, also known as hCaf1z, belongs to the DEDD family of deadenylases. TOE1 was initially identified as a direct target gene of ERG1, an immediate early transcription factor. TOE1 encodes an Asp-Glu-Asp-Asp deadenylase that specifically localizes to Cajal bodies in the nucleus, where assembly and maturation of small nuclear ribonucleoprotein particles, and telomerase ribonucleoprotein complex take place (PMID: 36257135). TOE1 has 2 isoforms with the molecular mass of 48 and 57 kDa.

## Notable Publications

| Author         | Pubmed ID | Journal                       | Application |
|----------------|-----------|-------------------------------|-------------|
| Hongcheng Wang | 36257135  | Theriogenology                | IF          |
| Xiao-Lin Sun   | 39657841  | Biochim Biophys Acta Gen Subj | 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

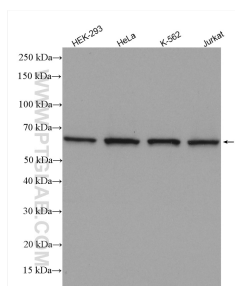
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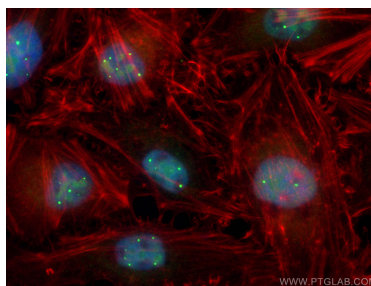
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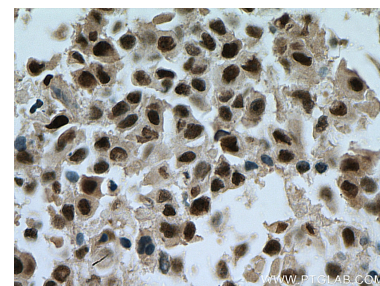
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 16203-1-AP (TOE1 antibody) at dilution of 1:2500 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using TOE1 antibody (16203-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-phalloidin (red).



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 16203-1-AP (TOE1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).