

# TOE1 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP56970

## Product Information

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<b>Application</b>	IHC-P, IHC-F, IF, ICC, E
<b>Primary Accession</b>	<a href="#">Q96GM8</a>
<b>Reactivity</b>	Human
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Calculated MW</b>	56548
<b>Physical State</b>	Liquid
<b>Immunogen</b>	KLH conjugated synthetic peptide derived from human TOE1
<b>Epitope Specificity</b>	2-100/510
<b>Isotype</b>	IgG
<b>Purity</b>	affinity purified by Protein A
<b>Buffer</b>	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
<b>SUBCELLULAR LOCATION</b>	Nucleus > nucleolus. Nucleus speckle. Localizes to nuclear speckles.
<b>SIMILARITY</b>	Belongs to the CAF1 family. Contains 1 C3H1-type zinc finger.
<b>Important Note</b>	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
<b>Background Descriptions</b>	TOE1 is a 510 amino acid long protein that belongs to the CAF1 family. It is a downstream target of EGR-1 and plays an important role mediating the inhibitory growth effect of EGR-1. EGR-1 directly binds the TOE1 promoter region and activates its expression. TOE1 induces the expression of TGF $\beta$ and p21 and plays a role in cell cycle regulation and the inhibition of cell growth. The activity and nucleolar localization of TOE1 correlates with a G2 cell cycle phase delay which is likely due to an increased expression of p21. In addition, TOE1 may function via an interaction with p53 and possible modification to its activity. TOE1 is expressed at various levels in all adult tissues and specifically localizes to the nuclear speckles.

## Additional Information

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<b>Gene ID</b>	114034
<b>Other Names</b>	Target of EGR1 protein 1, TOE1
<b>Dilution</b>	IHC-P=1:100-500,IHC-F=1:100-500,ICC=1:100-500,IF=1:100-500,ELISA=1:5000-10000
<b>Format</b>	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce
<b>Storage</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

## Protein Information

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<b>Name</b>	TOE1
<b>Function</b>	Inhibits cell growth rate and cell cycle. Induces CDKN1A expression as well as TGF-beta expression. Mediates the inhibitory growth effect of EGR1. Involved in the maturation of snRNAs and snRNA 3'-tail processing (PubMed: <a href="#">28092684</a> ).
<b>Cellular Location</b>	Nucleus, nucleolus. Nucleus speckle. Note=Localizes to nuclear speckles
<b>Tissue Location</b>	Widely expressed..

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.