



Rabbit Anti-TOE1 antibody

SL18167R

Product Name:	TOE1
Chinese Name:	早期生长应答蛋白1靶向蛋白1抗体
Alias:	Target of EGR1 protein 1; target of EGR1, member 1; Toe1; TOE1 HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	57kDa
Cellular localization:	The nucleus
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human TOE1:2-100/510
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. 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.
PubMed:	PubMed
Product Detail:	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 β 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.

Function:

Inhibits cell growth rate and cell cycle. Induces CDKN1A expression as well as TGF-beta expression. Mediates the inhibitory growth effect of EGR1.

Subcellular Location:

Nucleus > nucleolus. Nucleus speckle. Localizes to nuclear speckles.

Similarity:

Belongs to the CAF1 family.
Contains 1 C3H1-type zinc finger.

SWISS:

Q96GM8

Gene ID:

114034

Database links:

[Entrez Gene: 114034](#) Human

[Entrez Gene: 68276](#) Mouse

[Entrez Gene: 298443](#) Rat

[Omim: 613931](#) Human

[SwissProt: Q96GM8](#) Human

[SwissProt: Q9D2E2](#) Mouse

[Unigene: 525091](#) Human

[Unigene: 30534](#) Mouse

[Unigene: 105772](#) Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.