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TOE1 Rabbit pAb

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Catalog # AP56970

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q96GM8
Predicted	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	56548
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human TOE1
Epitope Specificity	2-100/510
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Nucleus > nucleolus. Nucleus speckle. Localizes to nuclear speckles.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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 TGFʃ 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

Gene ID	114034
Other Names	Target of EGR1 protein 1, TOE1
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	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

Name	TOE1
Function	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:28092684).
Cellular Location	Nucleus, nucleolus. Nucleus speckle. Note=Localizes to nuclear speckles
Tissue Location	Widely expressed..

Background

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