

TOE1 Monoclonal antibody

Catalog Number: 67829-1-Ig

Basic Information

Catalog Number: 67829-1-Ig	GenBank Accession Number: BC009364	Purification Method: Protein A purification
Size: 1000 µg/ml	GeneID (NCBI): 114034	CloneNo.: 2C10H7
Source: Mouse	UNIPROT ID: Q96GM8	Recommended Dilutions: WB 1:2000-1:10000 IHC 1:250-1:1000 IF/ICC 1:400-1:1600
Isotype: IgG2a	Full Name: target of EGR1, member 1 (nuclear)	
Immunogen Catalog Number: AG28982	Calculated MW: 510 aa, 57 kDa Observed MW: 57 kDa	

Applications

Tested Applications:
IF/ICC, IHC, WB, ELISA

Species Specificity:
Human

**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 : A549 cells, HeLa cells, HEK-293 cells, HepG2 cells,
Jurkat cells, K-562 cells

IHC : human colon cancer tissue,

IF/ICC : HepG2 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 EGR1, 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.

Storage

Storage:

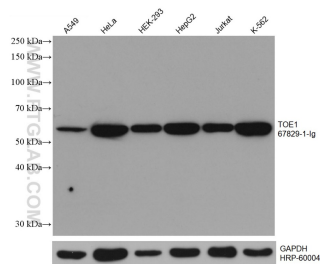
Store at -20°C. Stable for one year after shipment.

Storage Buffer:

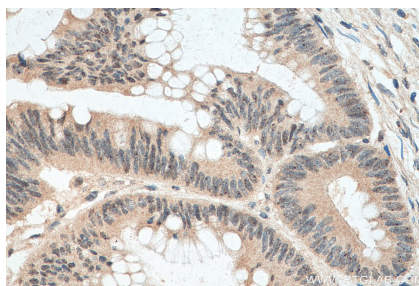
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

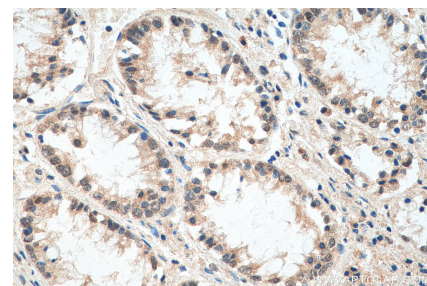
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 67829-1-Ig (TOE1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control.



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 67829-1-Ig (TOE1 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using TOE1 antibody (67829-1-Ig, Clone: 2C10H7) at dilution of 1:800 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).