

## DEF Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP11810a

### Product Information

---

<b>Application</b>	IHC-P, IF, WB, FC, E
<b>Primary Accession</b>	<a href="#">Q68CQ4</a>
<b>Other Accession</b>	<a href="#">Q5M9G7</a> , <a href="#">Q8BTT6</a> , <a href="#">NP_055203.4</a>
<b>Reactivity</b>	Human, Hamster, Rat, Mouse
<b>Predicted</b>	Rat
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	Rabbit IgG
<b>Clone Names</b>	RB29591
<b>Calculated MW</b>	87055
<b>Antigen Region</b>	2-30

### Additional Information

---

<b>Gene ID</b>	27042
<b>Other Names</b>	Digestive organ expansion factor homolog, DIEXF, C1orf107, DEF
<b>Target/Specificity</b>	This DEF antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 2-30 amino acids from the N-terminal region of human DEF.
<b>Dilution</b>	IHC-P~~1:100~500 IF~~1:10~50 WB~~1:1000 FC~~1:25 E~~Use at an assay dependent concentration.
<b>Format</b>	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
<b>Storage</b>	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
<b>Precautions</b>	DEF Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

### Protein Information

---

<b>Name</b>	UTP25 ( <a href="#">HGNC:28440</a> )
<b>Function</b>	Component of the ribosomal small subunit processome for the biogenesis of ribosomes, functions in pre-ribosomal RNA (pre-rRNA) processing (By

similarity). Essential for embryonic development in part through the regulation of p53 pathway. Controls the expansion growth of digestive organs and liver (PubMed:[23357851](#), PubMed:[25007945](#), PubMed:[27657329](#)). Also involved in the sympathetic neuronal development (By similarity). Mediates, with CAPN3, the proteasome-independent degradation of p53/TP53 (PubMed:[23357851](#), PubMed:[27657329](#)).

**Cellular Location** Nucleus, nucleolus

**Tissue Location** Expressed in colon..

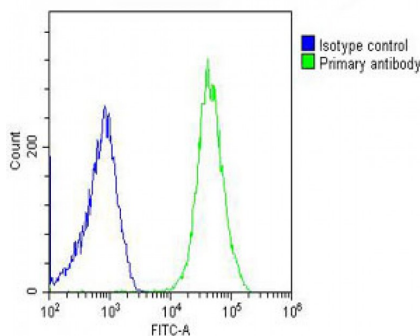
## Background

Regulates the p53 pathway to control the expansion growth of digestive organs (By similarity).

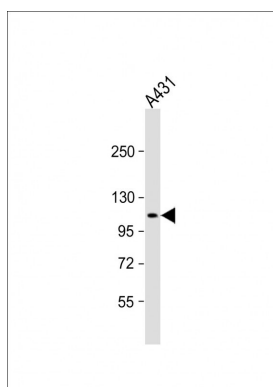
## References

Birnbaum, S., et al. Nat. Genet. 41(4):473-477(2009)  
Chen, J., et al. Genes Dev. 19(23):2900-2911(2005)

## Images

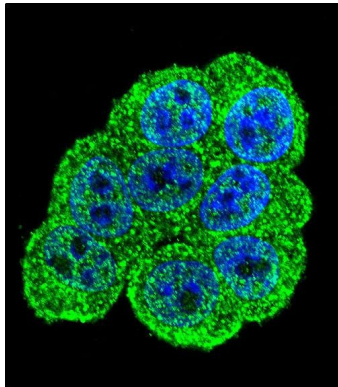
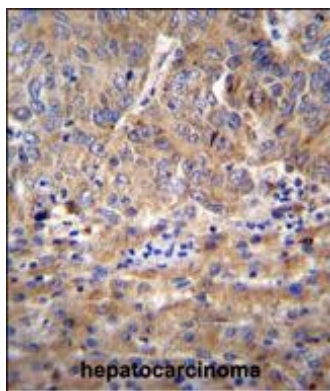


Overlay histogram showing U-2OS cells stained with AP11810a (green line). The cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with 90% methanol for 10 min. The cells were then incubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (AP11810a, 1:25 dilution) for 60 min at 37°C. The secondary antibody used was Goat-Anti-Rabbit IgG, DyLight® 488 Conjugated Highly Cross-Adsorbed(OH191631) at 1/200 dilution for 40 min at 37°C. Isotype control antibody (blue line) was rabbit IgG (1µg/1x10<sup>6</sup> cells) used under the same conditions. Acquisition of >10, 000 events was performed.



Anti-DEF Antibody (N-term) at 1:2000 dilution + A431 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 87 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

DEF Antibody (N-term) (Cat. #AP11810a) immunohistochemistry analysis in formalin fixed and paraffin embedded human hepatocarcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of DEF Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.



Confocal immunofluorescent analysis of DEF Antibody (N-term)(Cat#AP11810a) with HeLa cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). DAPI was used to stain the cell nuclear (blue).

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