

# USP47 Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP21508c

## Product Information

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<b>Application</b>	WB, IHC-P, E
<b>Primary Accession</b>	<a href="#">Q96K76</a>
<b>Reactivity</b>	Human, Mouse
<b>Host</b>	Rabbit
<b>Clonality</b>	polyclonal
<b>Isotype</b>	Rabbit IgG
<b>Clone Names</b>	RB53787
<b>Calculated MW</b>	157311

## Additional Information

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<b>Gene ID</b>	55031
<b>Other Names</b>	Ubiquitin carboxyl-terminal hydrolase 47, Deubiquitinating enzyme 47, Ubiquitin thioesterase 47, Ubiquitin-specific-processing protease 47, USP47
<b>Target/Specificity</b>	This USP47 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 588-620 amino acids from the Central region of human USP47.
<b>Dilution</b>	WB~~1:2000 IHC-P~~1:100~500 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>	USP47 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	USP47
<b>Function</b>	Ubiquitin-specific protease that specifically deubiquitinates monoubiquitinated DNA polymerase beta (POLB), stabilizing POLB thereby playing a role in base-excision repair (BER). Acts as a regulator of cell growth and genome integrity. May also indirectly regulate CDC25A expression at a transcriptional level.

**Cellular Location**

Cytoplasm.

**Tissue Location**

Expressed in skeletal muscle, heart and testis.

## Background

Ubiquitin-specific protease that specifically deubiquitinates monoubiquitinated DNA polymerase beta (POLB), stabilizing POLB thereby playing a role in base-excision repair (BER). Acts as a regulator of cell growth and genome integrity. May also indirectly regulates CDC25A expression at a transcriptional level.

## References

Ota T.,et al.Nat. Genet. 36:40-45(2004).

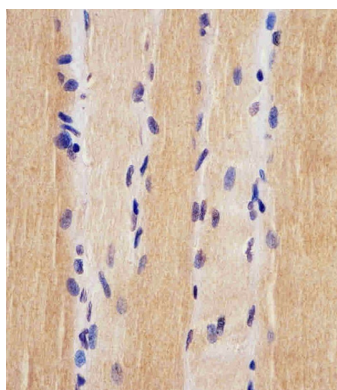
Taylor T.D.,et al.Nature 440:497-500(2006).

Jikuya H.,et al.Submitted (JAN-2002) to the EMBL/GenBank/DDBJ databases.

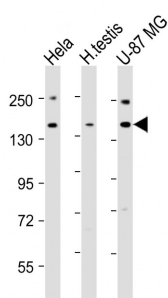
Bechtel S.,et al.BMC Genomics 8:399-399(2007).

Quesada V.,et al.Biochem. Biophys. Res. Commun. 314:54-62(2004).

## Images



AP21508c staining USP47 in human skeletal muscle tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 3% BSA for 0.5 hour at room temperature; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody (1/25) for 1 hour at 37°C. A undiluted biotinylated goat polyvalent antibody was used as the secondary antibody.



All lanes : Anti-USP47 Antibody (Center) at 1:2000 dilution  
Lane 1: HeLa whole cell lysates Lane 2: human testis lysates Lane 3: U-87 MG whole cell lysates  
Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution Predicted band size : 157 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

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