

USP47 Antibody (Center)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP21508c

Specification

USP47 Antibody (Center) - Product Information

| | |
|-------------------|------------------------|
| Application | WB, IHC-P,E |
| Primary Accession | Q96K76 |
| Reactivity | Human |
| Host | Rabbit |
| Clonality | polyclonal |
| Isotype | Rabbit IgG |
| Calculated MW | 157311 |

USP47 Antibody (Center) - Additional Information

Gene ID 55031

Other Names

Ubiquitin carboxyl-terminal hydrolase 47, Deubiquitinating enzyme 47, Ubiquitin thioesterase 47, Ubiquitin-specific-processing protease 47, USP47

Target/Specificity

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.

Dilution

WB~~1:2000

IHC-P~~1:25

E~~Use at an assay dependent concentration.

Format

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.

Storage

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.

Precautions

USP47 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

USP47 Antibody (Center) - Protein Information

Name USP47

Function 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.

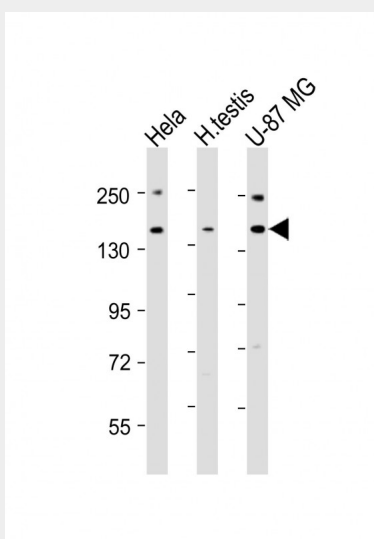
Tissue Location

Expressed in skeletal muscle, heart and testis.

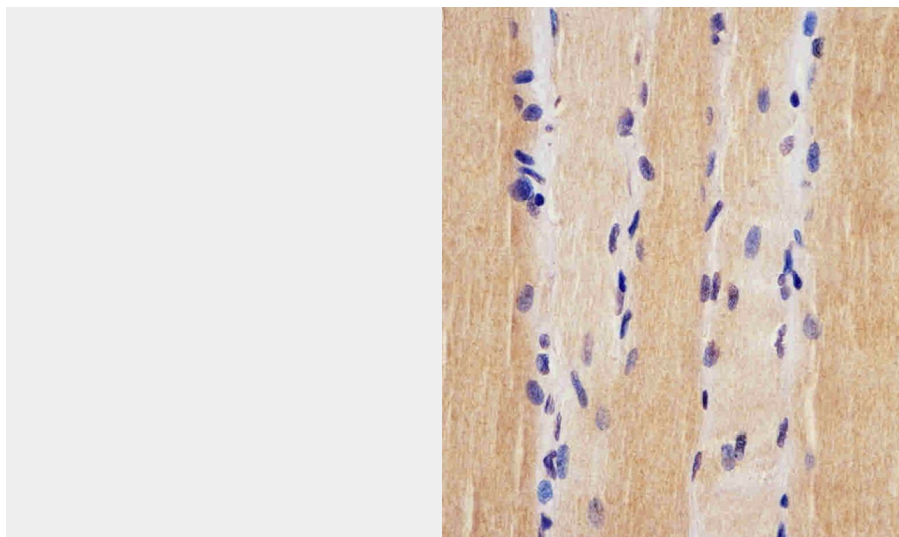
USP47 Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

USP47 Antibody (Center) - Images

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.



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.

USP47 Antibody (Center) - 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.

USP47 Antibody (Center) - 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).