

**USP29 Antibody (Center)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP2153c****Specification**

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**USP29 Antibody (Center) - Product Information**

Application	WB, IHC-P,E
Primary Accession	<a href="#">Q9HBJ7</a>
Other Accession	<a href="#">NP_065954</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	660-690

**USP29 Antibody (Center) - Additional Information****Gene ID** 57663**Other Names**

Ubiquitin carboxyl-terminal hydrolase 29, Deubiquitinating enzyme 29, Ubiquitin thioesterase 29, Ubiquitin-specific-processing protease 29, USP29

**Target/Specificity**

This USP29 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 660-690 amino acids from the Central region of human USP29.

**Dilution**

WB~~1:1000

IHC-P~~1:10~50

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**

USP29 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

**USP29 Antibody (Center) - Protein Information****Name** USP29 {ECO:0000303|PubMed:10958632, ECO:0000312|HGNC:HGNC:18563}

**Function** Deubiquitinase involved in innate antiviral immunity by mediating 'Lys-48'-linked deubiquitination of CGAS, thereby promoting its stabilization.

**Cellular Location**

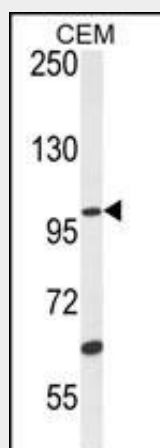
Cytoplasm, perinuclear region {ECO:0000250|UniProtKB:Q9ES63}. Note=Localizes to perinuclear region in response to herpes simplex virus-1 (HSV-1) infection {ECO:0000250|UniProtKB:Q9ES63}

**USP29 Antibody (Center) - Protocols**

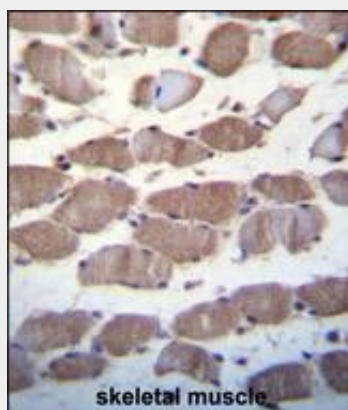
Provided below are standard protocols that you may find useful for product applications.

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

**USP29 Antibody (Center) - Images**



USP29 Antibody (T675) (Cat. #AP2153c) western blot analysis in CEM cell line lysates (35ug/lane). This demonstrates the USP29 antibody detected the USP29 protein (arrow).



USP29 Antibody (Center) (Cat. #AP2153c) immunohistochemistry analysis in formalin fixed and

paraffin embedded human skeletal muscle followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of USP29 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.

#### **USP29 Antibody (Center) - Background**

Modification of target proteins by ubiquitin participates in a wide array of biological functions. Proteins destined for degradation or processing via the 26 S proteasome are coupled to multiple copies of ubiquitin. However, attachment of ubiquitin or ubiquitin-related molecules may also result in changes in subcellular distribution or modification of protein activity. An additional level of ubiquitin regulation, deubiquitination, is catalyzed by proteases called deubiquitinating enzymes, which fall into four distinct families. Ubiquitin C-terminal hydrolases, ubiquitin-specific processing proteases (USPs), 1 OTU-domain ubiquitin-aldehyde-binding proteins, and Jab1/Pad1/MPN-domain-containing metallo-enzymes. Among these four families, USPs represent the most widespread and represented deubiquitinating enzymes across evolution. USPs tend to release ubiquitin from a conjugated protein. They display similar catalytic domains containing conserved Cys and His boxes but divergent N-terminal and occasionally C-terminal extensions, which are thought to function in substrate recognition, subcellular localization, and protein-protein interactions.

#### **USP29 Antibody (Center) - References**

Puente, X.S., et al., Nat. Rev. Genet. 4(7):544-558 (2003).  
Tureci, O., et al., Oncogene 21(24):3879-3888 (2002).  
Kim, J., et al., Genome Res. 10(8):1138-1147 (2000).

#### **USP29 Antibody (Center) - Citations**

- [USP29 activation mediated by FUBP1 promotes AURKB stability and oncogenic functions in gastric cancer](#)
- [USP29 coordinates MYC and HIF1 \$\alpha\$  stabilization to promote tumor metabolism and progression](#)