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USP27X Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP16881a

Product Information

Application	WB, IF, E
Primary Accession	A6NNY8
Other Accession	NP_001138545.1
Reactivity	Human, Rat, Mouse
Predicted	Bovine, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB30377
Calculated MW	49630
Antigen Region	1-30

Additional Information

Gene ID	389856
Other Names	Ubiquitin carboxyl-terminal hydrolase 27, Deubiquitinating enzyme 27, Ubiquitin carboxyl-terminal hydrolase 22-like, Ubiquitin thioesterase 27, Ubiquitin-specific-processing protease 27, X-linked ubiquitin carboxyl-terminal hydrolase 27, USP27X, USP22L, USP27
Target/Specificity	This USP27X antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids of human USP27X.
Dilution	WB~~1:1000 IF~~1:25 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. 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	USP27X Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

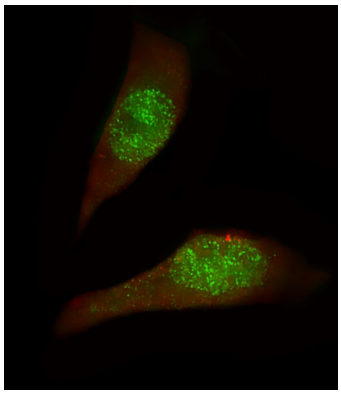
Name	USP27X {ECO:0000303|PubMed:31534008, ECO:0000312|HGNC:HGNC:13486}

Function	Deubiquitinase involved in innate antiviral immunity by mediating deubiquitination of CGAS and RIGI (PubMed:31534008, PubMed:32027733). Negatively regulates RIGI by mediating 'Lys-63'- linked deubiquitination of RIGI, inhibiting type I interferon signaling (PubMed:32027733). Also regulates 'Lys-63'-linked ubiquitination level of MDA5/IFIH1 (PubMed:32027733). Acts as a positive regulator of the cGAS-STING pathway by catalyzing 'Lys-48'-linked deubiquitination of CGAS, thereby promoting its stabilization (PubMed:31534008). Can reduce the levels of BCL2L11/BIM ubiquitination and stabilize BCL2L11 in response to the RAF-MAPK-degradation signal (By similarity). By acting on BCL2L11 levels, may counteract the anti-apoptotic effects of MAPK activity (By similarity).
Cellular Location	Cytoplasm, cytosol {ECO:0000250|UniProtKB:Q8CEG8}. Nucleus {ECO:0000250|UniProtKB:Q8CEG8}

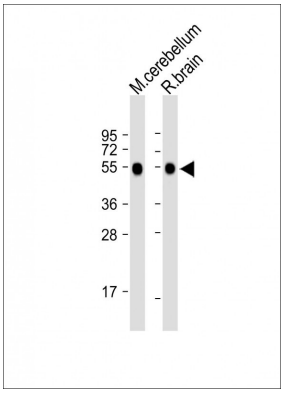
References

Puente, X.S., et al. Nat. Rev. Genet. 4(7):544-558(2003)

Images



Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0. 1% Triton X-100 permeabilized Hela cells labeling USP27X with AP16881a at 1/25 dilution, followed by Dylight® 488-conjugated goat anti-Rabbit IgG secondary antibody at 1/200 dilution (green). Immunofluorescence image showing Nucleus and Weak Cytoplasm staining on Hela cell line. Cytoplasmic actin is detected with Dylight® 554 Phalloidin(red). The nuclear counter stain is DAPI (blue).



All lanes : Anti-USP27X Antibody (N-term)at 2:1000 dilution Lane 1: mouse cerebellum lysate Lane 2: rat brain lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 50 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

Citations

- The deubiquitinase Usp27x stabilizes the BH3-only protein Bim and enhances apoptosis.
- Phosphorylation of USP27X by GSK3β maintains the stability and oncogenic functions of CBX2

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