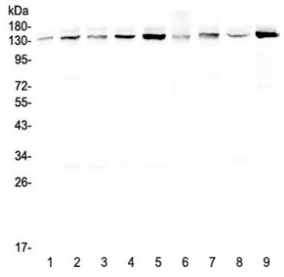
USP7 Antibody / HAUSP (RQ4283)

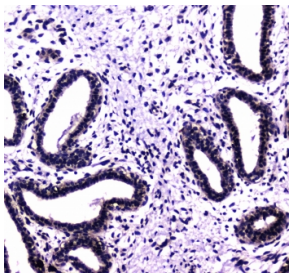
Catalog No.	Formulation	Size
RQ4283	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

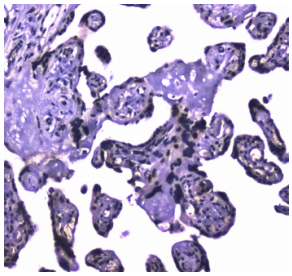
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	Q93009
Localization	Nuclear
Applications	Western blot: 0.5-1ug/ml Immunohistochemistry (FFPE): 1-2ug/ml Immunofluorescence/Immunocytochemistry: 2-4ug/ml Flow cytometry: 1-3ug/10^6 cells Direct ELISA: 0.1-0.5ug/ml
Limitations	This USP7 antibody is available for research use only.



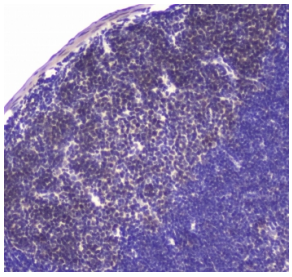
Western blot testing of human 1) HeLa, 2) 22RV1, 3) A431, 4) HepG2, 5) HepG2, 6) SGC-7901, 7) A549, 8) rat brain and 9) mouse testis lysate with USP7 antibody at 0.5ug/ml. Predicted molecular weight ~128 kDa, observed at ~135 kDa.



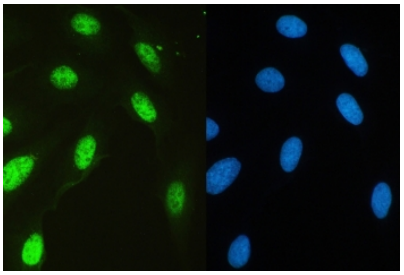
IHC testing of FFPE human breast cancer tissue with USP7 antibody at 1ug/ml. Required HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.



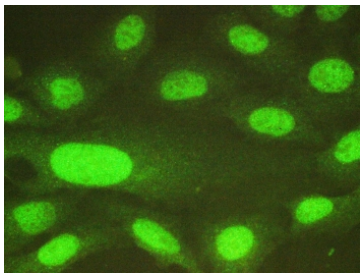
IHC testing of FFPE human placental tissue with USP7 antibody at 1ug/ml. Required HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.



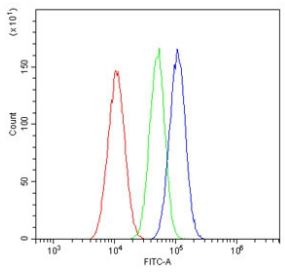
IHC testing of FFPE mouse lymph node tissue with USP7 antibody at 1ug/ml. Required HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.



IF/ICC staining of FFPE human U-2 OS cells with USP7 antibody (green) at 2ug/ml and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



IF/ICC staining of FFPE human U-2 OS cells with USP7 antibody (green) at 2ug/ml. HIER: steam section in pH6 citrate buffer for 20 min.



Flow cytometry testing of human A549 cells with USP7 antibody at 1ug/10^6 cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= USP7 antibody.

Description

Ubiquitin-specific-processing protease 7 (USP7), also known as ubiquitin carboxyl-terminal hydrolase 7 or herpesvirus-associated ubiquitin-specific protease (HAUSP), is an enzyme that in humans is encoded by the USP7 gene. The protein encoded by this gene belongs to the peptidase C19 family, which includes ubiquitinyl hydrolases. This protein deubiquitinates target proteins such as p53 (a tumor suppressor protein) and WASH (essential for endosomal protein recycling), and regulates their activities by counteracting the opposing ubiquitin ligase activity of proteins such as HDM2 and TRIM27, involved in the respective process. Mutations in this gene have been implicated in a neurodevelopmental disorder.

Application Notes

Optimal dilution of the USP7 antibody should be determined by the researcher.

Immunogen

A recombinant human protein corresponding to amino acids L258-D483 was used as the immunogen for the USP7 antibody.

Storage

After reconstitution, the USP7 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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