USP13 Antibody (F54764)

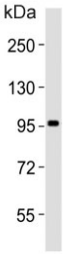
Catalog No.	Formulation	Size
F54764-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F54764-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse
Format	Purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Purified
UniProt	Q92995
Localization	Cytoplasmic, nuclear
Applications	Western Blot : 1:500-1:1000 Immunohistochemistry (FFPE) : 1:50-1:100
Limitations	This USP13 antibody is available for research use only.



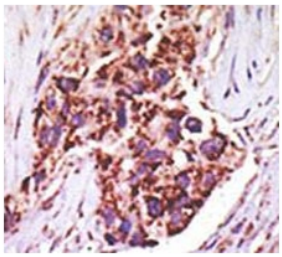
Western blot testing of human HeLa cell lysate with USP13 antibody. Predicted molecular weight ~97 kDa.



Western blot testing of human testis tissue lysate with USP13 antibody. Predicted molecular weight ~97 kDa.



Detection of USP13 in HeLa cells expressing exogenous USP13 using USP13 antibody. (Data provided by Amy Chen, Burnham Institute for Medical Research)



IHC testing of FFPE human breast cancer tissue with USP13 antibody. HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.

Description

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.

Application Notes

The stated application concentrations are suggested starting points. Titration of the USP13 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 389-419 from the human protein was used as the immunogen for the USP13 antibody.

Storage

Aliquot the USP13 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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