

anti- USP10 antibody

Product Information

Catalog No.:	FNab10128
Size:	100µg
Form:	liquid
Purification:	Immunogen affinity purified
Purity:	≥95% as determined by SDS-PAGE
Host:	Rabbit
Clonality:	polyclonal
Clone ID:	None
IsoType:	IgG
Storage:	PBS with 0.02% sodium azide and 50% glycerol pH 7.3, -20°C for 12 months (Avoid repeated freeze / thaw cycles.)

Background

Hydrolase that can remove conjugated ubiquitin from target proteins such as p53/TP53, BECN1, SNX3 and CFTR. Acts as an essential regulator of p53/TP53 stability: in unstressed cells, specifically deubiquitinates p53/TP53 in the cytoplasm, leading to counteract MDM2 action and stabilize p53/TP53. Following DNA damage, translocates to the nucleus and deubiquitinates p53/TP53, leading to regulate the p53/TP53-dependent DNA damage response. Component of a regulatory loop that controls autophagy and p53/TP53 levels: mediates deubiquitination of BECN1, a key regulator of autophagy, leading to stabilize the PIK3C3/VPS34-containing complexes. In turn, PIK3C3/VPS34-containing complexes regulate USP10 stability, suggesting the existence of a regulatory system by which PIK3C3/VPS34-containing complexes regulate p53/TP53 protein levels via USP10 and USP13. Does not deubiquitinate MDM2. Deubiquitinates CFTR in early endosomes, enhancing its endocytic recycling. Involved in a TANK-dependent negative feedback response to attenuate NF-kappaB activation via deubiquitinating IKBKG or TRAF6 in response to interleukin-1-beta(IL1B) stimulation or upon DNA damage(PubMed:25861989).

Immunogen information

Immunogen: ubiquitin specific peptidase 10

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Synonyms: Deubiquitinating enzyme 10, KIAA0190, Ubiquitin thiolesterase 10, UBPO, USP10

Observed MW:

Uniprot ID : Q14694

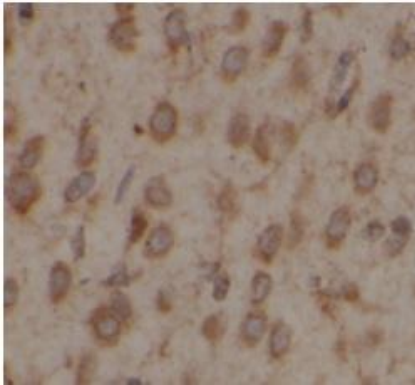
Application

Reactivity: Human, Mouse

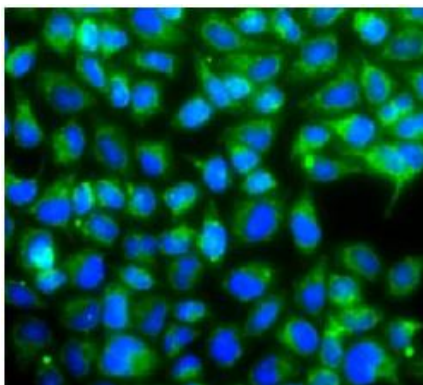
Tested Application: ELISA, IHC, IF

Recommended dilution: IHC: 1:50-1:200; IF: 1:20-1:100

Image:



Immunohistochemistry of paraffin-embedded mouse brain tissue slide using FNab10128 (USP10 Antibody) at dilution of 1:100.



Immunofluorescence analysis of A549 cells using USP10 antibody (FNab10128). Blue: DAPI for nuclear staining.