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USP45 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP13409c

Product Information

Application	WB, IHC-P, E
Primary Accession	Q70EL2
Other Accession	Q8K387, NP_001073950.1
Reactivity	Human, Mouse
Predicted	Rat, Bovine, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB33362
Calculated MW	91733
Antigen Region	309-338

Additional Information

Gene ID	85015
Other Names	Ubiquitin carboxyl-terminal hydrolase 45, Deubiquitinating enzyme 45, Ubiquitin thioesterase 45, Ubiquitin-specific-processing protease 45, USP45
Target/Specificity	This USP45 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 309-338 amino acids from the Central region of human USP45.
Dilution	WB~~1:1000 IHC-P~~1:100~500 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	USP45 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	USP45
Function	Catalyzes the deubiquitination of SPDL1 (PubMed: 30258100). Plays a role in the repair of UV-induced DNA damage via deubiquitination of ERCC1,

	promoting its recruitment to DNA damage sites (PubMed:25538220). May be involved in the maintenance of photoreceptor function (PubMed:30573563). May play a role in normal retinal development (By similarity). Plays a role in cell migration (PubMed:30258100).
Cellular Location	Photoreceptor inner segment. Cytoplasm Nucleus
Tissue Location	Widely expressed. High expression is detected in the cerebellum. In the eye, it is expressed at high levels in the optic nerve, sclera and retina, with relatively low levels in the choroid, lens and retinal pigment epithelium (PubMed:30573563)

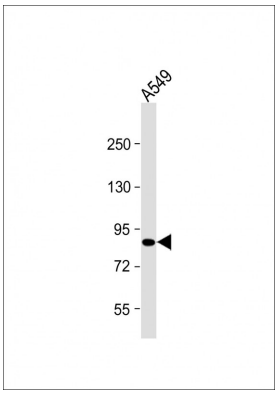
Background

The function of this protein remains unknown.

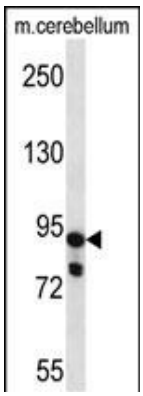
References

Quesada, V., et al. Biochem. Biophys. Res. Commun. 314(1):54-62(2004)
Mungall, A.J., et al. Nature 425(6960):805-811(2003)
Puente, X.S., et al. Nat. Rev. Genet. 4(7):544-558(2003)

Images

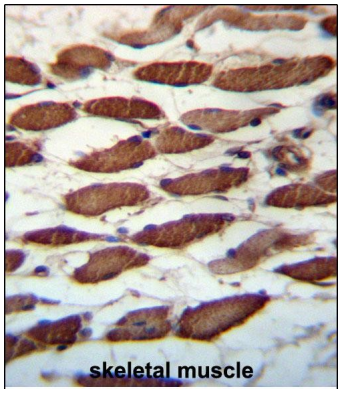


Anti-USP45 Antibody (Center) at 1:2000 dilution + A549 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 92 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



USP45 Antibody (Center) (Cat. #AP13409c) western blot analysis in mouse cerebellum tissue lysates (35ug/lane).This demonstrates the USP45 antibody detected the USP45 protein (arrow).

USP45 Antibody (Center) (Cat. #AP13409c)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 USP45 Antibody (Center) for immunohistochemistry. Clinical relevance has not been



evaluated.

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