

USP45 Antibody (Center) Blocking peptide
Synthetic peptide
Catalog # BP13409c**Specification**

USP45 Antibody (Center) Blocking peptide - Product InformationPrimary Accession [Q70EL2](#)**USP45 Antibody (Center) Blocking peptide - 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

The synthetic peptide sequence used to generate the antibody AP13409c was selected from the Center region of USP45. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

USP45 Antibody (Center) Blocking peptide - 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)

USP45 Antibody (Center) Blocking peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

USP45 Antibody (Center) Blocking peptide - Images**USP45 Antibody (Center) Blocking peptide - Background**

The function of this protein remains unknown.

USP45 Antibody (Center) Blocking peptide - 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)