

USP51 Blocking Peptide (Center)
Synthetic peptide
Catalog # BP20473c**Specification**

USP51 Blocking Peptide (Center) - Product InformationPrimary Accession [Q70EK9](#)**USP51 Blocking Peptide (Center) - Additional Information****Gene ID** 158880**Other Names**

Ubiquitin carboxyl-terminal hydrolase 51, Deubiquitinating enzyme 51, Ubiquitin thioesterase 51, Ubiquitin-specific-processing protease 51, USP51

Target/Specificity

The synthetic peptide sequence is selected from aa 293-307 of Human USP51

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.

USP51 Blocking Peptide (Center) - Protein Information**Name** USP51 ([HGNC:23086](#))**Function**

Specifically deubiquitinates 'Lys-14' (H2AK13Ub) and 'Lys- 16'(H2AK15Ub) of histone H2A regulating the DNA damage response at double-strand breaks (DSBs) (PubMed:27083998). USP51 is recruited to chromatin after DNA damage and regulates the dynamic assembly/disassembly of TP53BP1 and BRCA1. Exhibits also activity for 'Lys-27' or 'Lys-63'-linked di-ubiquitin (PubMed:27083998).

Cellular Location

Chromosome. Note=Upon DNA damage, chromatin-bound USP51 disassociates from chromatin immediately following DNA damage and reassociates with chromatin following DNA repair.

Tissue Location

Expressed in prostate, brain, lung, aorta and kidney.

USP51 Blocking Peptide (Center) - Protocols

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

- [Blocking Peptides](#)

USP51 Blocking Peptide (Center) - Images

USP51 Blocking Peptide (Center) - References

Quesada V., et al. Biochem. Biophys. Res. Commun. 314:54-62(2004).

Ross M.T., et al. Nature 434:325-337(2005).

Puente X.S., et al. Genome Res. 14:609-622(2004).