

USP28 recombinant protein

USP28, Active

CATALOG # AAA74107	HOST E Coli	APPLICATIONS Western Blot
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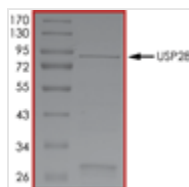
PRODUCT SYNONYMS

USP28; Active; KIAA1515; USP28 recombinant protein

PRODUCT SPECIFICATIONS

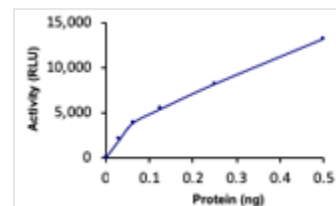
Host	E Coli
Form/Format	Recombinant protein stored in 50mM Tris-HCl, pH7.5, 150mM NaCl, 10mM glutathione, 0.25mM DTT, 0.1mM EDTA, 0.1mM PMSF, 25% glycerol.
Applicable Applications for USP28 recombinant protein	WB (Western Blot), Activity Assay
Tag	GST
Species	Human
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Store product at -70 degree C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

IMAGES



SDS-PAGE

Purity: Sample Purity Data. For specific information on a given lot, see related technical data sheet.



Activity

Specific Activity: Sample Activity Plot. For specific information on a given lot, see related technical data sheet.

ADDITIONAL INFORMATION

Related Product Information for USP28 recombinant protein	Recombinant human USP28 (155-675a.a.) was expressed in E Coli cells using an N-terminal GST tag. The USP28 gene accession number is NM_020886. USP28 (ubiquitin carboxyl-terminal hydrolase 28) is a deubiquitinase belonging to the family of deubiquitinating enzymes (DUBs) and plays a role in the DNA damage pathway by specifically deubiquitinating proteins of the pathway such as CLSPN. USP2 deubiquitinates ZNF304, inhibiting its degradation and leading to the activated KRAS-mediated promoter hypermethylation and transcriptional silencing of tumor suppressor genes (TSGs) in various colorectal cancers (CRC) cells (1). USP28 counteracts the activity of E3 ligases, antagonizes FBW7 and a component of the SCF-type E3 ubiquitin ligase that targets key transcriptional factors to ubiquitin-directed proteasome degradation, thus stabilizing substrates such as oncogenic c-MYC (2). This may lead to enhanced proliferation, carcinogenesis, and metastasis.
Product Categories/Family for USP28 recombinant protein	DUBs; Cancer; Cardiovascular Disease; Cell Cycle; Cellular Stress; Invasion/Metastasis; Metabolic Disorder

References

1. Serra, Ryan W et al: A KRAS-directed transcriptional silencing pathway that mediates the CpG island methylator phenotype. eLife 3: e02313, 2014.
2. Wang, X. et al: Targeting deubiquitinase USP28 for cancer therapy. Cell Death & Disease 9: 186, 2018.

NCBI AND UNIPROT INFORMATION

NCBI GenBank Nucleotide #

[NM_020886](#)

Molecular Weight

85kDa

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/usp28-recombinant-protein-e-coli-wb-western-blot-activity-assay/74107>