AMSH (Associated molecule with the SH3 domain of STAM) Catalytic domain

Cat. # DB302

Background

AMSH (Associated Molecule with the SH3-domain of STAM) is a JAMM domain-containing protein that regulates receptor endosomal sorting of the epidermal growth factor receptor (EGFR)[1]. Recombinant AMSH functions as a deubiquitylase *in vitro* and ablation of AMSH activity by incubation of cells with AMSH siRNA enhances the degradation of EGFR[1]. AMSH mediated cleavage of K63 linked ubiquitin chains is enhanced in the presence of its binding partner STAM[2].

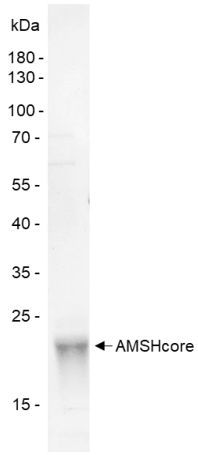
Alternate names

AMSHcore

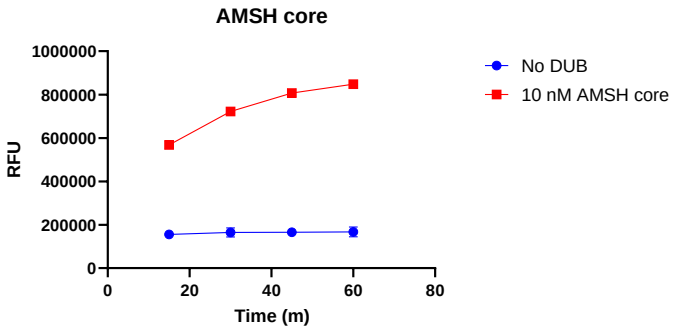
Product Information

Molecular Weight	20.5 kDa
Quantity	25 µg
Physical State	Liquid
Source	Human, recombinant, residues 250-424
Tag	His_6
Activity	This enzyme cleaves K63-linked ubiquitin chains in vitro.
Storage	-80° C. Avoid repeated freeze/thaw cycles

Product QC



SDS-Page Analysis of purified AMSHcore. Two µg of the enzyme was loaded on a 10-20% SDS-PAGE gel and stained with Coomassie brilliant blue.



Activity Assay of AMSH core. 10 nM AMSHcore was tested in a Ub-Rh110 assay showing robust DUB activity.

References

1) Davies, C., et al., J Mol Biol., 2011. 413(2):416-29.

2) Tian, S., et al., Autophagy, 2021. 17(6):1367-1378.