Recombinant Human ASZ1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. ASZ1-2378H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	ASZ1 MS Standard C13 and N15-labeled recombinant protein (NP_570124) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	Plays a central role during spermatogenesis by repressing transposable elements and preventing their mobilization, which is essential for the germline integrity. Acts via the piRNA metabolic process, which mediates the repression of transposable elements during meiosis by forming complexes composed of piRNAs and Piwi proteins and governs the methylation and subsequent repression of transposons. Its association with pi-bodies suggests a participation in the primary piRNAs metabolic process. Required prior to the pachytene stage to facilitate the production of multiple types of piRNAs, including those associated with repeats involved in the regulation of retrotransposons. May act by mediating protein-protein interactions during germ cell maturation.
Molecular Mass	53.5 kDa
AA Sequence	MAASALRGLPVAGGGESSESEDDGWEIGYLDRTSQKLKRLLPIEEKKEKFKKAMTIG DVSLVQELLDSGISVDSNFQYGWTPLMYAASVANAELVRVLLDRGANASFEKDKQSI LITACSAHGSEEQILKCVELLLSRNADPNVACRRLMTPIMYAARDGHTQVVALLVAH

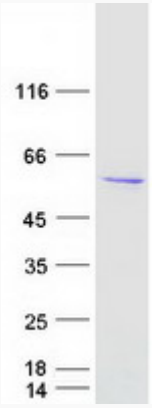
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	GAEVNTQDENGYTALTWAARQGHKNIVLKLLELGANKMLQTKDGKMPSEIAKRNKH HEIFNLLSFTLNPLEGKLQQLTKEDTICKILTTDSDREKDHIFSSYTAFGDLEVFLHGL GLEHMTDLLKERDITLRHLLTMREDEFTKNGITSKDQQKILAALKELQVEEIQFGELSE ETKLEISGDEFLNFLLKLNKQCGHLITAVQNVITELPVNSQKITLEWASPQNFTSVCEE LVNNVEDLSEKVCKLKDLIQKLQNERENDPTHIQLREEVSTWNSRILKRTAITICGFGF LLFICKLTFQRKTRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 μg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	ASZ1 ankyrin repeat, SAM and basic leucine zipper domain containing 1 [Homo sapiens (human)]
Official Symbol	ASZ1
Synonyms	ASZ1; ankyrin repeat, SAM and basic leucine zipper domain containing 1; ANKL1, ankyrin like 1, C7orf7; ankyrin repeat, SAM and basic leucine zipper domain-containing protein 1; ALP1; CT1.19; GASZ; Orf3; 4933400N19Rik; ankyrin-like 1; ankyrin-like protein 1; germ cell-specific ankyrin, SAM and basic leucine zipper domain-containing protein; ANKL1; C7orf7; MGC26634;

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Gene ID	136991
mRNA Refseq	NM_130768
Protein Refseq	NP_570124
MIM	605797
UniProt ID	Q8WWH4
SDS-PAGE	

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