Recombinant Human HUS1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. HUS1-1572H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	HUS1 MS Standard C13 and N15-labeled recombinant protein (NP_004498) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	The protein encoded by this gene is a component of an evolutionarily conserved, genotoxin-activated checkpoint complex that is involved in the cell cycle arrest in response to DNA damage. This protein forms a heterotrimeric complex with checkpoint proteins RAD9 and RAD1. In response to DNA damage, the trimeric complex interacts with another protein complex consisting of checkpoint protein RAD17 and four small subunits of the replication factor C (RFC), which loads the combined complex onto the chromatin. The DNA damage induced chromatin binding has been shown to depend on the activation of the checkpoint kinase ATM, and is thought to be an early checkpoint signaling event. Alternative splicing results in multiple transcript variants.
Molecular Mass	31.7 kDa
AA Sequence	MKFRAKIVDGACLNHFTRISNMIAKLAKTCTLRISPDKLNFILCDKLANGGVSMWCEL EQENFFNEFQMEGVSAENNEIYLELTSENLSRALKTAQNARALKIKLTNKHFPCLTVS VELLSMSSSSRIVTHDIPIKVIPRKLWKDLQEPVVPDPDVSIYLPVLKTMKSVVEKMKN

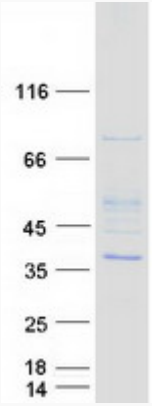
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	ISNHLVIEANLDGELNLKIETELVCVTTHFKDLGNPPLASESTHEDRNVEHMAEVHIDI RKLLQFLAGQQVNPTKALCNIVNNKMVHFDLLHEDVSLQYFIPALSTRTRPLEQKLIS EEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt 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	HUS1 HUS1 checkpoint clamp component [Homo sapiens (human)]
Official Symbol	HUS1
Synonyms	HUS1; HUS1 checkpoint homolog (S. pombe); HUS1 (S. pombe) checkpoint homolog; checkpoint protein HUS1; hus1+ like protein; hus1+-like protein; hHUS1;
Gene ID	3364
mRNA Refseq	NM_004507
Protein Refseq	NP_004498
MIM	603760

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UniProt ID	O60921
SDS-PAGE	

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