Recombinant Human HUS1, His-tagged

Cat. No. HUS1-29414TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human HUS1 with an N terminal His tag; 300 amino acids with tag, Predicted MWt 33.8 kDa.
Species	Human
Source	E.coli
ProteinLength	280 amino acids
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.
Conjugation	HIS
Molecular Weight	33.800kDa inclusive of tags
Tissue specificity	Ubiquitous.

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Form	Liquid
Purity	>95% by SDS-PAGE
Storage buffer	Preservative: NoneConstituents: 40% Glycerol, 20mM Tris HCl, 100mM Sodium chloride, pH 8.0
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MGSSHHHHHHSSGLVPRGSHMKFRAKIVDGACLNHFTRISNMIAKLAKTCTLRISPDKLNFILCDKLANGGVSMWCELEQENFFNEFQMEGVSAENNEIYLELTSENLSRALKTAQNARALKIKLTNKHFPCLTVSVELLSMSSSSRIVTHDIPIKVIPRKLWKDLQEPVVPDPDVSIYLPVLKTMKSVVEKMKNISNHLVIEANLDGELNLKIETELVCVTTHFKDLGNPPLASESTHEDRNVEHMAEVHIDIRKLLQFLAGQQVNPTKALCNIVNNKMVHFDLLHEDVSLQYFIPALS
Sequence Similarities	Belongs to the HUS1 family.

GENE INFORMATION

Gene Name	HUS1 HUS1 checkpoint homolog (S. pombe) [Homo sapiens]
Official Symbol	HUS1
Synonyms	HUS1; HUS1 checkpoint homolog (S. pombe); HUS1 (S. pombe) checkpoint homolog; checkpoint protein HUS1; hus1+ like protein;
Gene ID	3364

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mRNA Refseq	NM_004507
Protein Refseq	NP_004498
MIM	603760
Uniprot ID	O60921
Chromosome Location	7p13-p12
Pathway	Activation of ATR in response to replication stress, organism-specific biosystem; Cell Cycle Checkpoints, organism-specific biosystem; G2/M Checkpoints, organism-specific biosystem; Regulation of Telomerase, organism-specific biosystem;
Function	protein binding; protein serine/threonine kinase activity;

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