

Recombinant Human WHSC2, His-tagged

Cat. No. WHSC2-30860TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human WHSC2 (amino acids 1-539) with an N terminal His tag; 569 amino acids with tag, Predicted MWt 60.6kDa,
Species	Human
Source	E.coli
ProteinLength	539 amino acids
Description	This gene is expressed ubiquitously with higher levels in fetal than in adult tissues. It encodes a protein sharing 93% sequence identity with the mouse protein. Wolf-Hirschhorn syndrome (WHS) is a malformation syndrome associated with a hemizygous deletion of the distal short arm of chromosome 4. This gene is mapped to the 165 kb WHS critical region, and may play a role in the phenotype of the WHS or Pitt-Rogers-Danks syndrome. The encoded protein is found to be capable of reacting with HLA-A2-restricted and tumor-specific cytotoxic T lymphocytes, suggesting a target for use in specific immunotherapy for a large number of cancer patients. This protein has also been shown to be a member of the NELF (negative elongation factor) protein complex that participates in the regulation of RNA polymerase II transcription elongation.
Conjugation	HIS
Molecular Weight	60.600kDa inclusive of tags

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Form	Liquid
Purity	by SDS-PAGE
Storage buffer	pH: 8.00 Constituents: 0.32% Tris HCl, 1.17% Sodium chloride, 0.08% DTT, 0.03% EDTA, 20% Glycerol
Storage	Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

Sequences of amino acids

MGSSHHHHHHSSGLVPRGSHMPGQRRALSPKMASMRESDT GLWLHNKLGATDE
 LWAPPSIASLLTAAVIDNIRLCFHGLS SAVKLKLLLGLHLPRRTVDEMKGALMEIQL
 ASLDSDPW VLMVADILKSFPDGTGSLNLELEEQNPVQDILGELREKVG ECEASAML
 PLECQYLNKNALTTLAGPLTPPVKHFQLKRKP KSATLRAELLQKSTETAQQLKRSAG
 VPFHAKGRGLLRKMD TTTPKLGIPKQAPFRSPTAPSVFSPTGNRTPIPPSRTLRLR KE
 RGVKLLDISELDMVGAGREAKRRRKTLD AEVVEKPAKE ETVVENATPDYAAGLVST
 QKLGSLNNEPALPSTSYLPSTP SVVPASSYIPSSETPPAPSSREASRPPEEPSAPSP
 TLPAQ FKQRAPMYNSGLSPATPTPAAPTSP LPTTPPAVAPTTQT PPVAMVAPQTQ
 APAQQQPKNLSLTREQMFAAQEMFKTAN KVTREKALILGFMAGSRENPCQEQG
 DVIQIKLSEHTEDL PKADGQGSTTMLVDTVFEMNYATGQWTRFKKYKPMTNVS

GENE INFORMATION

Gene Name	WHSC2 Wolf-Hirschhorn syndrome candidate 2 [Homo sapiens]
Official Symbol	WHSC2
Synonyms	WHSC2; Wolf-Hirschhorn syndrome candidate 2; negative elongation factor A; NELF A;
Gene ID	7469

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mRNA Refseq	NM_005663
Protein Refseq	NP_005654
MIM	606026
Uniprot ID	Q9H3P2
Chromosome Location	4p16.3
Pathway	Abortive elongation of HIV-1 transcript in the absence of Tat, organism-specific biosystem; Formation and Maturation of mRNA Transcript, organism-specific biosystem; Formation of HIV-1 elongation complex containing HIV-1 Tat, organism-specific biosystem; Formation of HIV-1 elongation complex in the absence of HIV-1 Tat, organism-specific biosystem; Formation of RNA Pol II elongation complex, organism-specific biosystem;

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