



Human WISP1 peptide (DAG-P1304)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description

This gene encodes a member of the WNT1 inducible signaling pathway (WISP) protein subfamily, which belongs to the connective tissue growth factor (CTGF) family. WNT1 is a member of a family of cysteine-rich, glycosylated signaling proteins that mediate diverse developmental processes. The CTGF family members are characterized by four conserved cysteine-rich domains: insulin-like growth factor-binding domain, von Willebrand factor type C module, thrombospondin domain and C-terminal cystine knot-like domain. This gene may be downstream in the WNT1 signaling pathway that is relevant to malignant transformation. It is expressed at a high level in fibroblast cells, and overexpressed in colon tumors. The encoded protein binds to decorin and biglycan, two members of a family of small leucine-rich proteoglycans present in the extracellular matrix of connective tissue, and possibly prevents the inhibitory activity of decorin and biglycan in tumor cell proliferation. It also attenuates p53-mediated apoptosis in response to DNA damage through activation of the Akt kinase. It is 83% identical to the mouse protein at the amino acid level. Multiple alternatively spliced transcript variants have been identified. [provided by RefSeq, Mar 2011]

Conjugate	Unconjugated
Format	Liquid
Preservative	None
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

GENE INFORMATION

Gene Name	WISP1 WNT1 inducible signaling pathway protein 1 [Homo sapiens (human)]
Official Symbol	WISP1
Synonyms	WISP1; WNT1 inducible signaling pathway protein 1; CCN4; WISP1c; WISP1i; WISP1tc;

WNT1-inducible-signaling pathway protein 1; CTC-458A3.8; CCN family member 4; WNT1 induced secreted protein 1; Wnt-1 inducible signaling pathway protein 1;

Entrez Gene ID	8840
mRNA Refseq	NM_001204869.1
Protein Refseq	NP_001191798.1
UniProt ID	O95388
Chromosome Location	8q24.22
Function	insulin-like growth factor binding;