

Datasheet for ABIN2735599

WISP1 Protein (Transcript Variant 1)

1 Image



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Overview

Quantity:	20 µg
Target:	WISP1
Protein Characteristics:	Transcript Variant 1
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Application:	Antibody Production (AbP), Standard (STD), Functional Studies (Func), Protein Interaction (PI)

Product Details

Specificity:	Optimal preservation of protein structure, post-translational modifications and functions.
Characteristics:	<ul style="list-style-type: none">• Recombinant human WISP1 (transcript variant 1) protein expressed in E. coli.• Produced with end-sequenced ORF clone• Tested for bioactivity.
Purity:	> 95 % as determined by SDS-PAGE and Coomassie blue staining
Endotoxin Level:	Endotoxin level is <0.1 ng/µg of protein (<1EU/µg).
Biological Activity Comment:	ED50 was determined by the dose-dependant proliferation of the MCF-7 cell line. The expected ED50 for this effect is 1.0-3.0 ug/ml.

Target Details

Target:	WISP1
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Target Details

Alternative Name: [Wisp1 \(WISP1 Products\)](#)

Background: 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.

Molecular Weight: 38.1 kDa

NCBI Accession: [NP_003873](#)

Pathways: [WNT Signaling](#), [Growth Factor Binding](#)

Application Details

Application Notes: Recombinant human proteins can be used for:
Native antigens for optimized antibody production
Positive controls in ELISA and other antibody assays
Protein-protein interaction
In vitro biochemical assays and cell-based functional assays

Restrictions: For Research Use only

Handling

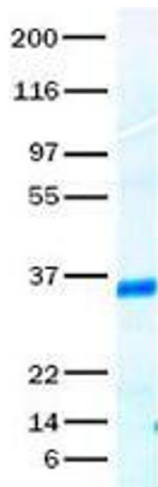
Buffer: Lyophilized from a 0.2 μ M filtered solution of 20 mM phosphate buffer, 100 mM NaCl, pH 7.2

Handling Advice: Resuspend the protein in the desired concentration in proper buffer

Storage: -80 °C

Storage Comment: Store at -80°C. Thaw on ice, aliquot to individual single-use tubes, and then re-freeze

immediately. Only 2-3 freeze thaw cycles are recommended.



Western Blotting

Image 1. Validation with Western Blot