WISP2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	WISP2, Polyclonal Antibody
Full Product Name	WISP2 Conjugated Antibody
Product Gene Name	anti-WISP2 antibody
Product Synonym Names	CCN5; CT58; CTGF-L
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Specificity	The antibody detects endogenous levels of total WISP2 protein.
Preparation and Storage	Store at 4 degree C for 6 months.
Molecular Weight	24kDa
OMIM	603399
3D Structure	ModBase 3D Structure for O76076
Immunogen	Synthetic peptide of human WISP2
Conjugation	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Excitation Emission	AF350: 346nm/442nm
Applications Tested/Suitable for anti-WISP2 antibody	Most Applications
Application Notes for anti-WISP2 antibody	Suggested Dilution: AF350 conjugated: most applications: 1:50-1:250 AF405 conjugated: most applications: 1:50-1:250 AF488 conjugated: most applications: 1:50-1:250 AF555 conjugated: most applications: 1:50-1:250 AF594 conjugated: most applications: 1:50-1:250 AF647 conjugated: most applications: 1:50-1:250 AF680 conjugated: most applications: 1:50-1:250 AF750 conjugated: most applications: 1:50-1:250 Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1:50-1:1000
Related Product Information for anti-WISP2 antibody	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 (CT) domain. The encoded protein lacks the CT domain which is implicated in dimerization and heparin binding. It is 72% identical to the mouse protein at the amino acid level. This gene may be downstream in the WNT1 signaling pathway that is relevant to malignant transformation. Its expression in colon tumors is reduced while the other two WISP members are overexpressed in colon tumors. It is expressed at high levels in bone tissue, and may play an important role in modulating bone turnover.

Other Notes	Small volumes of anti-WISP2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for WISP2 purchase	MBS9452054 is an antibody targeting WISP2. Also known as WISP2 Conjugated Antibody. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for WISP2. It may not necessarily be applicable to this product.

NCBI GI #	4507923
NCBI GeneID	8839
NCBI Accession #	NP_003872
UniProt Primary Accession #	O76076
UniProt Related Accession #	O76076
GenBank Nucleotide #	NM_003881
NCBI Official Full Name	WNT1-inducible-signaling pathway protein 2 isoform 1
NCBI Official Synonym Full Names	cellular communication network factor 5
NCBI Official Symbol	CCN5
NCBI Official Synonym Symbols	CT58; WISP2; CTGF-L
UniProt Protein Name	WNT1-inducible-signaling pathway protein 2
UniProt Synonym Protein Names	CCN family member 5; Connective tissue growth factor-like protein; CTGF-L; Connective tissue growth factor-related protein 58
Protein Family	WNT1-inducible-signaling pathway protein
UniProt Gene Name	WISP2
UniProt Synonym Gene Names	CCN5; CT58; CTGFL; WISP-2; CTGF-L
UniProt Entry Name	WISP2_HUMAN
NCBI Protein Information	WNT1-inducible-signaling pathway protein 2
UniProt Comments for WISP2	WISP2: May play an important role in modulating bone turnover. Promotes the adhesion of osteoblast cells and inhibits the binding of fibrinogen to integrin receptors. In addition, inhibits osteocalcin production. Belongs to the CCN family. Protein type: Secreted; Secreted, signal peptide Chromosomal Location of Human Ortholog: 20q13.12 Cellular Component: extracellular space; proteinaceous extracellular matrix; plasma membrane Molecular Function: heparin binding; integrin binding; insulin-like growth factor binding Biological Process: cell-cell signaling; regulation of cell growth; signal transduction; cell adhesion
Research Articles on WISP2	**1.** The authors show that, in triple-negative-breast cancer (TNBC) cells enriched with tumor initiating cells, CCN5 significantly blocks cellular growth via apoptosis, reversing epithelial-mesenchymal-transition-signaling and impairing mammosphere formation, thereby blocking the tumor-forming ability and invasive capacity of these cells.

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