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Rabbit Anti-WISP3 antibody

SL12380R

Product Name:	WISP3
Chinese Name:	Wnt1信号通路蛋白3抗体
Alias:	CCN 6; CCN family member 6; CCN6; CYR61; LIBC; Lost in inflammatory breast cancer tumor suppressor protein; MGC125987; MGC125988; MGC125989; OTTHUMP00000040421; PPAC; PPD; UNQ462/PRO790/PRO956; WISP 3; WISP-3; WISP3; WISP3_HUMAN; WNT 1 inducible signaling pathway protein 3; Wnt 1 signaling pathway protein 3; WNT1 inducible signaling pathway protein 3; WNT1 inducible signaling pathway protein 3 precursor; WNT1-inducible-signaling pathway protein 3.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Horse,Rabbit,Sheep,Monkey,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	37kDa
Cellular localization:	Secretory protein
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human WISP3:221-320/354
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	Wnt-induced secreted protein (WISP)-1, WISP-2 and WISP-3 are members of the CCN

family of growth factors, which include connective tissue growth factor (CTGF) and Cyr61. WISP-1, WISP-2 and WISP-3 share significant sequence similarity, including four conserved cysteine-rich domains, and they are believed to function as dimers in their active forms. WISP-1 expression is observed in various tissues including adult heart, kidney and spleen, while WISP-2 expression predominates in skeletal muscle, colon and ovary. Both WISP-1 and WISP-2 are upregulated in cells transformed with the proto-oncogene Wnt-1, and they are also more highly expressed in human colon tumors, suggesting that these proteins may participate in tumor development. WISP-3 is involved in normal post-natal skeletal growth, and it is also implicated in the development of the autosomal recessive skeletal disorder progressive pseudorheumatoid dysplasia, which affects cartilage homeostasis by disrupting the growth of chondrocyte and normal cell columnar organization.

Function:
Appears to be required for normal postnatal skeletal growth and cartilage homeostasis.

Subcellular Location:
Secreted.

Tissue Specificity:
Predominant expression in adult kidney and testis and fetal kidney. Weaker expression found in placenta, ovary, prostate and small intestine. Also expressed in skeletally-derived cells such as synoviocytes and articular cartilage chondrocytes.

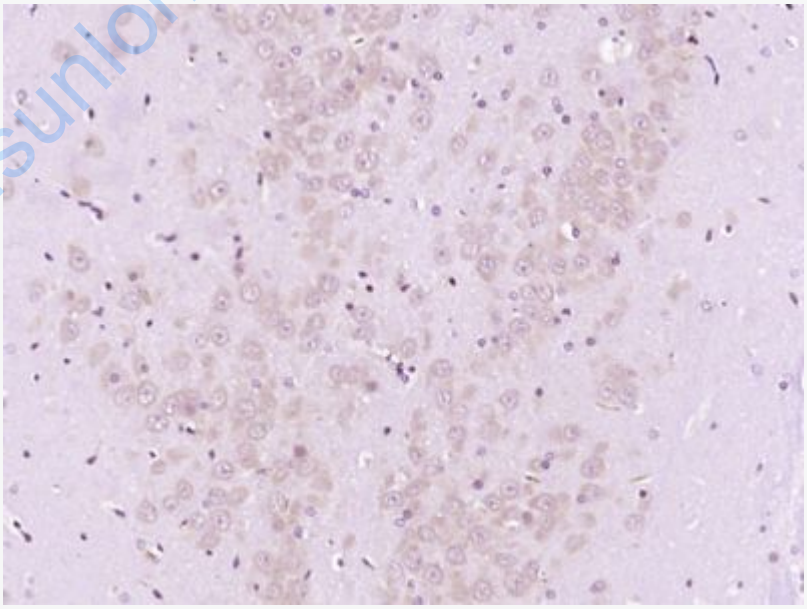
DISEASE:
Defects in WISP3 are the cause of progressive pseudorheumatoid arthropathy of childhood (PPAC) [MIM:208230]. PPAC is an autosomal recessive disorder characterized by stiffness and swelling of joints, motor weakness and joint contractures. Signs and symptoms of the disease develop typically between three and eight years of age. This progressive disease is a primary disorder of articular cartilage with continued cartilage loss and destructive bone changes with aging.

Similarity:
Belongs to the CCN family.
Contains 1 CTCK (C-terminal cystine knot-like) domain.
Contains 1 IGFBP N-terminal domain.
Contains 1 TSP type-1 domain.

SWISS:
O95389

Gene ID:
8838

Database links:

	Entrez Gene: 8838Human Entrez Gene: 327743Mouse Entrez Gene: 499461Rat Omim: 603400Human SwissProt: O95389Human SwissProt: D3Z5L9Mouse Unigene: 558428Human Unigene: 208111Mouse Unigene: 141375Rat **Important Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Picture:	 Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3%

	hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (WISP3) Polyclonal Antibody, Unconjugated (SL12380R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.