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WISP2 Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP6256A

Product Information

Application	WB, IHC-P, E
Primary Accession	O76076
Other Accession	NP_003872
Reactivity	Human
Predicted	Bovine, Canine, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	26825
Antigen Region	87-116

Additional Information

Gene ID	8839
Other Names	WNT1-inducible-signaling pathway protein 2, WISP-2, CCN family member 5, Connective tissue growth factor-like protein, CTGF-L, Connective tissue growth factor-related protein 58, WISP2, CCN5, CT58, CTGFL
Target/Specificity	This WISP2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 87-116 amino acids from the Central region of human WISP2.
Dilution	WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	WISP2 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	CCN5 (HGNC:12770)
Synonyms	CT58, CTGFL, WISP2

Function	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.
Cellular Location	Secreted.
Tissue Location	Expressed in primary osteoblasts, fibroblasts, ovary, testes, and heart

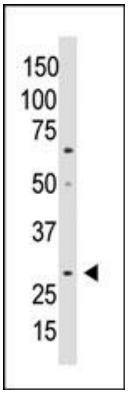
Background

Wisp2 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. Wisp2 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.

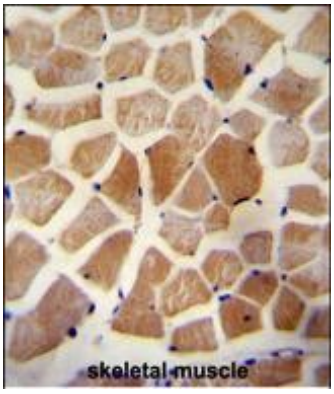
References

Clark, H.F., et al., Genome Res. 13(10):2265-2270 (2003). Banerjee, S., et al., Neoplasia 5(1):63-73 (2003). Kumar, S., et al., J. Biol. Chem. 274(24):17123-17131 (1999). Pennica, D., et al., Proc. Natl. Acad. Sci. U.S.A. 95(25):14717-14722 (1998). Saxena, N., et al., Mol. Cell. Biochem. 228 (1-2), 99-104 (2001).

Images



Western blot analysis of anti-WISP2 Antibody (Center) (Cat. #AP6256a) in A549 cell lysate. Wisp2 (arrow) was detected using purified Pab. Secondary HRP-anti-rabbit was used for signal visualization with chemiluminescence.



WISP2 Antibody (Center) (Cat. #AP6256A)immunohistochemistry analysis in formalin fixed and paraffin embedded human skeletal muscle followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of WISP2 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.

Citations

- WISP-2 in human gastric cancer and its potential metastatic suppressor role in gastric cancer cells mediated by JNK and PLC-γ pathways.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.