

## WISP1 Antibody

Catalog No: #40301

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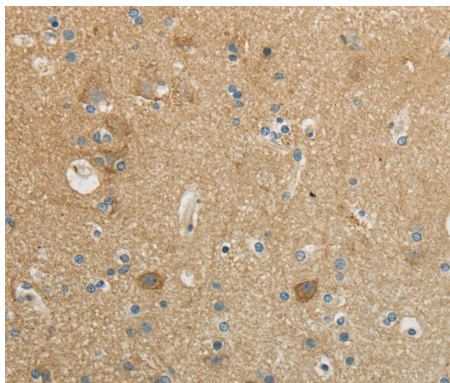
## Description

|                       |   |
|-----------------------|---|
| Product Name          | WISP1 Antibody  |
| Host Species          | Rabbit  |
| Clonality             | Polyclonal  |
| Purification          | Antigen affinity purification.  |
| Applications          | IHC   |
| Species Reactivity    | Hu  |
| Specificity           | The antibody detects endogenous levels of total WISP1 protein.        |
| Immunogen Type        | Peptide   |
| Immunogen Description | Synthetic peptide of human WNT1 inducible signaling pathway protein 1 |
| Target Name           | WISP1   |
| Other Names           | CCN4; WISP1c; WISP1i; WISP1tc   |
| Accession No.         | Swiss-Prot:O95388 Gene Accssion:NP_003873                             |
| Uniprot               | O95388  |
| GeneID                | 8840;   |
| Concentration         | 1.6mg/ml  |
| Formulation           | Rabbit IgG in pH7.4 PBS, 0.05% NaN <sub>3</sub> , 40% Glycerol.       |
| Storage               | Store at -20°C  |

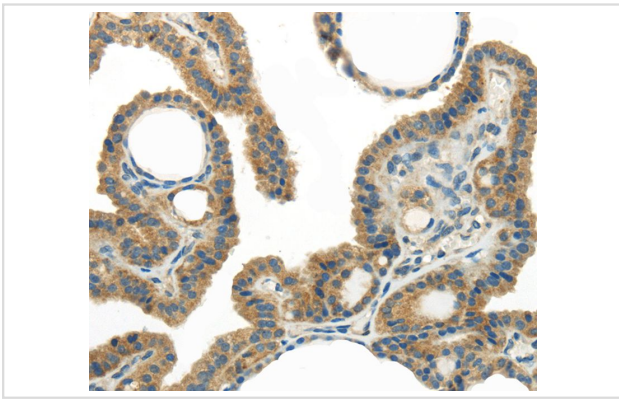
## Application Details

Immunohistochemistry:1:25-1:100

## Images



Immunohistochemical analysis of paraffin-embedded Human brain tissue using #40301 at dilution 1/25.



Immunohistochemical analysis of paraffin-embedded Human thyroid cancer tissue using #40301 at dilution 1/25.

## 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.

**Note:** This product is for in vitro research use only