

# KD-Validated Anti-Wnt family member 5A Rabbit Monoclonal Antibody

Rabbit monoclonal antibody

Catalog # AGI1290

## Product Information

|                   |                                                                                                                                                                        |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application       | WB, FC, ICC                                                                                                                                                            |
| Primary Accession | <a href="#">P41221</a>                                                                                                                                                 |
| Reactivity        | Human                                                                                                                                                                  |
| Clonality         | Monoclonal                                                                                                                                                             |
| Isotype           | Rabbit IgG                                                                                                                                                             |
| Clone Names       | 23GB 2400                                                                                                                                                              |
| Calculated MW     | 42339                                                                                                                                                                  |
| Gene Name         | WNT5A                                                                                                                                                                  |
| Aliases           | WNT5A; Wnt Family Member 5A; HWNT5A; Wingless-Type MMTV Integration Site Family, Member 5A; WNT-5A Protein; Protein Wnt-5a; Epididymis Secretory Sperm Binding Protein |
| Immunogen         | A synthesized peptide derived from human Wnt5a                                                                                                                         |

## Additional Information

|             |                       |
|-------------|-----------------------|
| Gene ID     | 7474                  |
| Other Names | Protein Wnt-5a, WNT5A |

## Protein Information

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
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| Name              | WNT5A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Function          | Ligand for members of the frizzled family of seven transmembrane receptors. Can activate or inhibit canonical Wnt signaling, depending on receptor context. In the presence of FZD4, activates beta-catenin signaling. In the presence of ROR2, inhibits the canonical Wnt pathway by promoting beta-catenin degradation through a GSK3-independent pathway which involves down-regulation of beta- catenin-induced reporter gene expression (By similarity). Suppression of the canonical pathway allows chondrogenesis to occur and inhibits tumor formation. Stimulates cell migration. Decreases proliferation, migration, invasiveness and clonogenicity of carcinoma cells and may act as a tumor suppressor (PubMed: <a href="#">15735754</a> ). Mediates motility of melanoma cells (PubMed: <a href="#">17426020</a> ). Required during embryogenesis for extension of the primary anterior-posterior axis and for outgrowth of limbs and the genital tubercle. Inhibits type II collagen expression in chondrocytes (By similarity). |
| Cellular Location | Secreted, extracellular space, extracellular matrix. Secreted                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

**Tissue Location**

Expression is increased in differentiated thyroid carcinomas compared to normal thyroid tissue and anaplastic thyroid tumors where expression is low or undetectable. Expression is found in thyrocytes but not in stromal cells (at protein level) (PubMed:15735754). Detected in neonate heart and lung (PubMed:8288227)

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