

**WNT5A Antibody (clone 3D10)**  
**Mouse Monoclonal Antibody**  
**Catalog # ALS13026****Specification**

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**WNT5A Antibody (clone 3D10) - Product Information**

Application	IHC
Primary Accession	<a href="#">P41221</a>
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Calculated MW	42kDa KDa

**WNT5A Antibody (clone 3D10) - Additional Information****Gene ID** 7474**Other Names**

Protein Wnt-5a, WNT5A

**Target/Specificity**

Human WNT5A

**Reconstitution & Storage**

Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles.

**Precautions**

WNT5A Antibody (clone 3D10) is for research use only and not for use in diagnostic or therapeutic procedures.

**WNT5A Antibody (clone 3D10) - Protein Information****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: [15735754](http://www.uniprot.org/citations/15735754)). Mediates motility of melanoma cells (PubMed: [17426020](http://www.uniprot.org/citations/17426020)). 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

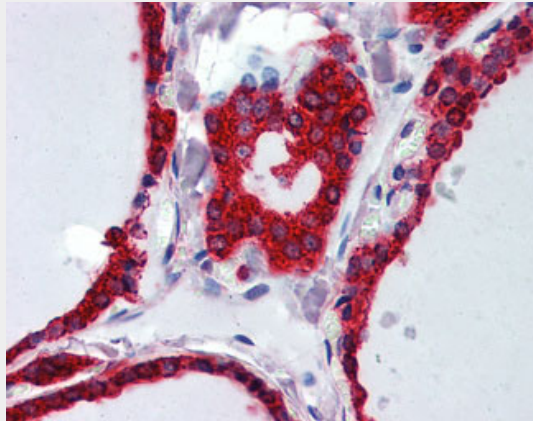
Expression is increased in differentiated thyroid carcinomas compared to normal thyroid tissue and anaplastic thyroid tumors where expression is low or undetectable. Expression is found in thyrocytes but not in stromal cells (at protein level) (PubMed:15735754). Detected in neonate heart and lung (PubMed:8288227)

### WNT5A Antibody (clone 3D10) - Protocols

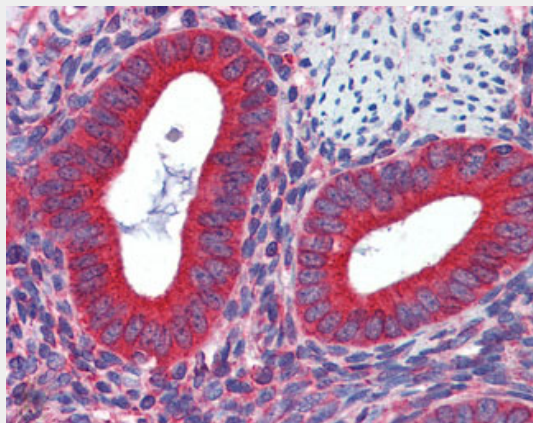
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### WNT5A Antibody (clone 3D10) - Images



Anti-WNT5A antibody IHC of human thyroid.



Anti-WNT5A antibody IHC of human uterus.

### **WNT5A Antibody (clone 3D10) - Background**

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### **WNT5A Antibody (clone 3D10) - References**

- Clark C.C., et al. *Genomics* 18:249-260(1993).  
Ota T., et al. *Nat. Genet.* 36:40-45(2004).  
Mural R.J., et al. Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.  
Kremenevskaja N., et al. *Oncogene* 24:2144-2154(2005).  
Dissanayake S.K., et al. *J. Biol. Chem.* 282:17259-17271(2007).