

Wnt-5a Mouse mAb

CatalogNo: YM0651

Key Features

Host Species

- Mouse

Reactivity

- Human

Applications

- WB,IHC,IF,ELISA

MW

- 42kD (Calculated)

Recommended Dilution Ratios

WB 1:500-1:2000

IHC 1:200-1:1000

IF 1:200-1:1000

ELISA 1:10000

Not yet tested in other applications.

Storage

Storage* -15°C to -25°C/1 year(Do not lower than -25°C)

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Basic Information

Clonality Monoclonal

Immunogen Information

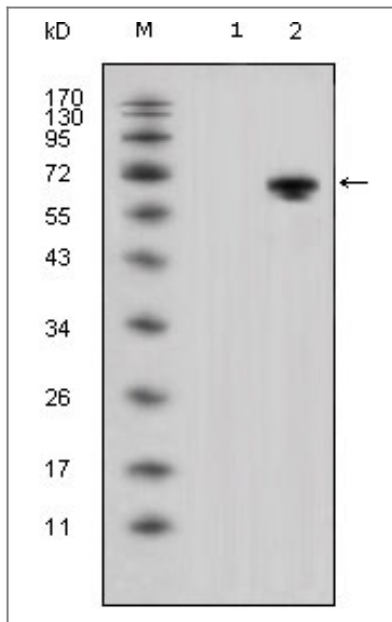
Immunogen Purified recombinant fragment of Wnt-5a expressed in E. Coli.

Specificity Wnt-5a Monoclonal Antibody detects endogenous levels of Wnt-5a protein.

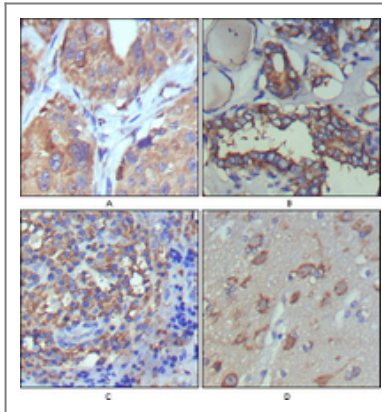
Target Information

Gene name	WNT5A		
Protein Name	Protein Wnt-5a		
	Organism	Gene ID	UniProt ID
	Human	7474;	P41221;
	Mouse		P22725;
Cellular Localization	Secreted, extracellular space, extracellular matrix . Secreted .		
Tissue specificity	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).		
Function	<p>Function:Ligand for members of the frizzled family of seven transmembrane receptors.,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. 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. Mediates motility of melanoma cells. 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.,PTM:Glycosylation is necessary for secretion but not for activity.,PTM:Palmitoylation is necessary for stimulation of cell migration, inhibition of the beta-catenin pathway and receptor binding.,similarity:Belongs to the Wnt family.,subunit:Interacts with PORCN.,tissue specificity: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),.</p>		

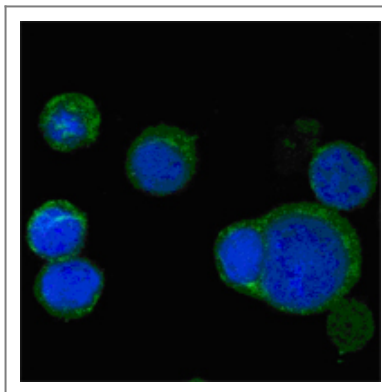
| Validation Data



Western Blot analysis using Wnt-5a Monoclonal Antibody against HEK293 (1) and Wnt-5a-hlgGfc transfected HEK293 cell lysate (2).



Immunohistochemistry analysis of paraffin-embedded human lung cancer (A), thyroid cancer (B), lymph node (C) and brain (D) showing cytoplasmic and extracellular matrix localization with DAB staining using Wnt-5a Monoclonal Antibody.



Confocal immunofluorescence analysis of PC-12 cells using Wnt-5a Monoclonal Antibody (green), showing cytoplasmic localization. Blue: DRAQ5 fluorescent DNA dye.

Contact information

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Wnt-5a Mouse mAb

