

Wnt5a Rabbit mAb

Catalog No: #49719



Package Size: #49719-1 50ul #49719-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

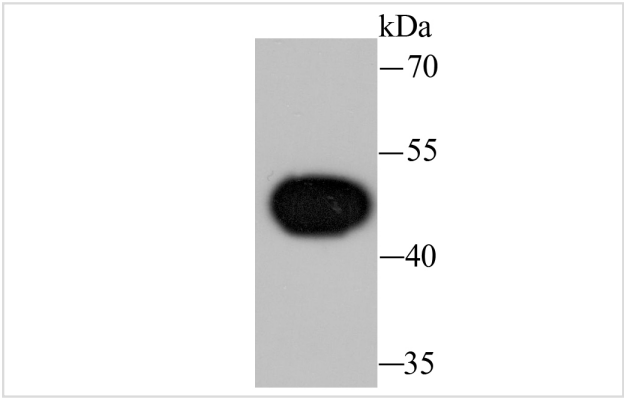
Description

Product Name	Wnt5a Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	JU30-30
Purification	ProA affinity purified
Applications	WB,ICC,IHC,FC
Species Reactivity	Human
Immunogen Description	Recombinant protein
Conjugates	Unconjugated
Other Names	hWNT 5A antibody hWNT5A antibody Protein Wnt 5a antibody Protein Wnt-5a antibody Protein Wnt5a antibody Wingless type MMTV integration site family member 5A antibody Wnt 5a antibody WNT 5A protein antibody WNT 5A protein precursor antibody WNT5A antibody WNT5A protein precursor antibody WNT5A_HUMAN antibody
Accession No.	Swiss-Prot#:P41221
Calculated MW	42 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

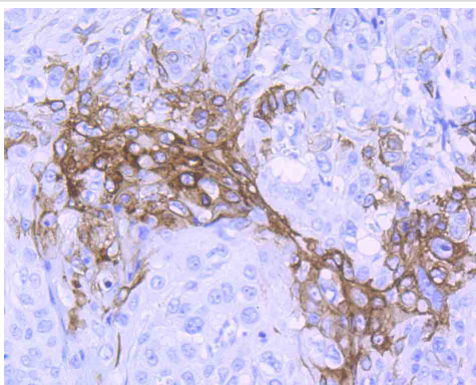
Application Details

WB: 1:500-1:2,000 IHC: 1:50-1:200ICC: 1:50 FC:1:50-1:100

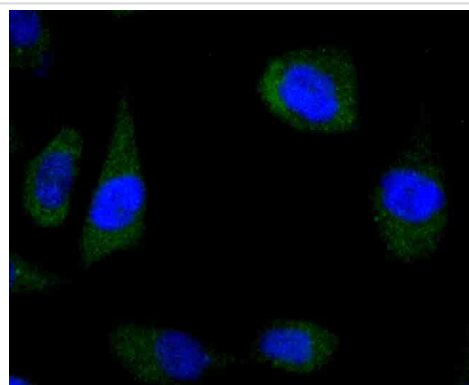
Images



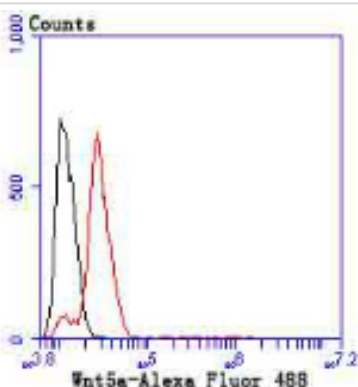
Western blot analysis of Wnt5a on Hela cell lysate using anti-Wnt5a antibody at 1/1,000 dilution.



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue using anti-Wnt5a antibody. Counter stained with hematoxylin.



ICC staining Wnt5a in PC-3M cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



Flow cytometric analysis of SH-SY5Y cells with Wnt5a antibody at 1/50 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody.

Background

The Wnt genes belong to a family of protooncogenes with at least 13 known members that are expressed in species ranging from *Drosophila* to man. The name Wnt denotes the relationship of this family to the *Drosophila* segment polarity gene "wingless" and to its vertebrate ortholog, *Int1*, a mouse protooncogene. Transcription of Wnt family genes appears to be developmentally regulated in a precise temporal and spatial manner. The Wnt genes encode cysteine-rich putative glycoproteins, which have features typical of secreted growth factors. Northern blot analysis detects expression of Wnt-5a in brain, lung, and heart. At least five distinct Wnt-5a transcripts are observed, which are due to transcript variability 5-prime to the initiation methionine. In situ hybridization detects a complex spatial and temporal pattern of Wnt-5a in the mouse, including expression in the developing central nervous system, limbs, facial processes, and the posterior region of the fetus. Human frizzled-5 is the receptor for the Wnt-5a ligand. It is suggested that Wnt-5a augments primitive hematopoietic development in vivo and represents an in vivo regulator of hematopoietic stem cell function in the human.

References

1. Kremenevskaja N et al. Wnt-5a has tumor suppressor activity in thyroid carcinoma. *Oncogene* 24:2144-2154 (2005).
2. Dissanayake SK et al. The Wnt5A/protein kinase C pathway mediates motility in melanoma cells via the inhibition of metastasis suppressors and initiation of an epithelial to mesenchymal transition. *J. Biol. Chem.* 282:17259-17271 (2007).

Published Papers

et al., SETD8 cooperates with MZF1 to participate in hyperglycemia-induced endothelial inflammation via elevation of WNT5A levels in diabetic nephropathy. In Cell Mol Biol Lett on 2022 Mar 26 by Fei Wang, Wenting Hou, Xue Li, et al.. PMID:35350980, (2022)

[PMID:35350980](#)

Note: This product is for in vitro research use only and is not intended for use in humans or animals.