

Product Name: KD-Validated Wnt Family Member 5A Recombinant Rabbit Monoclonal Antibody

Catalog #: KVA01470

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 42.3kDa

Antigen Information

Gene Name	WNT5A
Alternative Names	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
Gene ID	7474.0
SwissProt ID	P41221
Immunogen	A synthesized peptide derived from human Wnt5a

Background

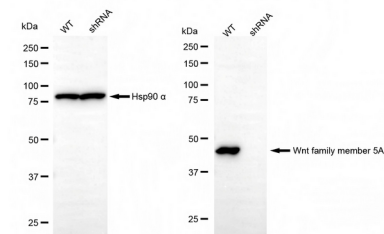
The WNT gene family consists of structurally related genes which encode secreted signaling proteins. These proteins have been implicated in oncogenesis and in several developmental processes, including regulation of cell fate and patterning during

embryogenesis. This gene encodes a member of the WNT family that signals through both the canonical and non-canonical WNT pathways. This protein is a ligand for the seven transmembrane receptor frizzled-5 and the tyrosine kinase orphan receptor 2. This protein plays an essential role in regulating developmental pathways during embryogenesis. This protein may also play a role in oncogenesis. Mutations in this gene are the cause of autosomal dominant Robinow syndrome. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Jan 2012]

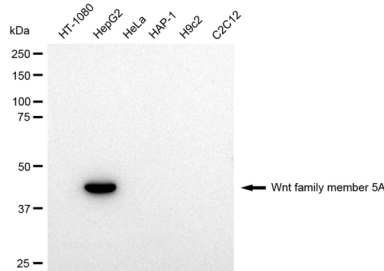
Research Area

Neuroscience, Stem Cells, Cancer

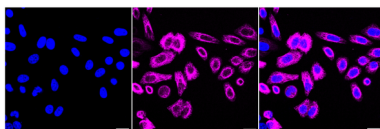
Image Data



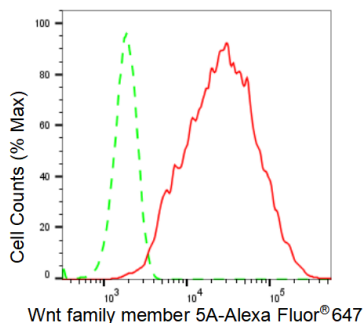
Western blotting analysis using Wnt family member 5A antibody (KVA01470). Wnt family member 5A expression in wild type (WT) and Wnt family member 5A (WNT5A) shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with Wnt family member 5A antibody (KVA01470, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using Wnt family member 5A antibody (KVA01470). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Wnt family member 5A antibody (KVA01470, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HepG2 cells with Wnt family member 5A antibody (KVA01470, 1:1,000). Nuclei were stained blue with DAPI; Wnt family member 5A was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: High. Scale bar: 20 µm.



Flow cytometric analysis of Wnt family member 5A expression in HepG2 cells using Wnt family member 5A antibody (KVA01470, 1:2,000). Green, isotype control; red, Wnt family member 5A.