



## WNT5A Mouse Monoclonal Antibody

E10-20330

**Background:** WNT5A: wingless-type MMTV integration site family, member 5A. Entrez Protein: NP\_003383. 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 is a member of the WNT gene family. It encodes a protein which shows 98%, 98% and 87% amino acid identity to the mouse, rat and the xenopus Wnt5A protein, respectively. The experiments performed in *Xenopus laevis* embryos identified that human frizzled-5 (hFz5) is the receptor for the Wnt5A ligand and the Wnt5A/hFz5 signaling mediates axis induction.

**Catalog Number:** E10-20330

**Amount:** 100µg/100µl

**Clone Number:** 6F2

**Species:** Mouse IgG1

**MW:** 42.3kDa

**Aliases:** hWNT5A

**Entrez Gene:** 7474

**Immunogen:** Purified recombinant fragment of WNT5A expressed in *E. Coli*.

**Storage:** Store at 4 °C for long term storage, store at 20 °C for short term storage

**Formulation:** Ascitic fluid containing 0.03% sodium azide.

**Species Reactivities:** Human

**Tested Applications:** WB ,IHC IF,ELISA. Not yet tested in other applications. Determining optimal working dilutions by titration test.

**Application notes:** WB:1/500 - 1/2000.IHC:1/200-1/1000,IF:1/200 - 1/1000.ELISA: Propose dilution 1/10000.

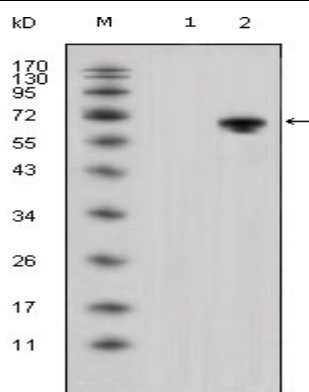


Figure 1: Western blot analysis using WNT5A mouse mAb against HEK293 (1) and WNT5A-hlgGfc transfected HEK293 cell lysate (2).

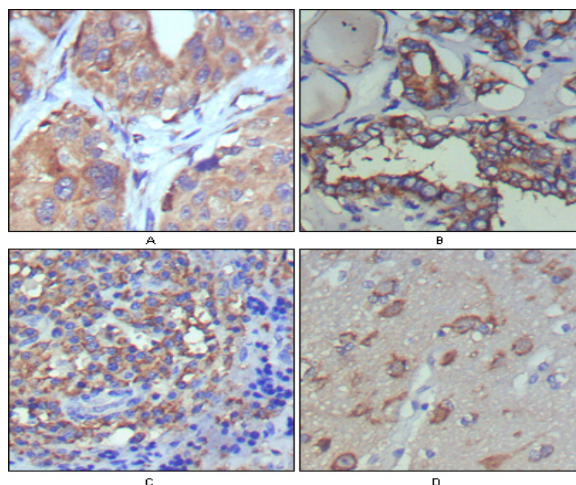


Figure 2: Immunohistochemical analysis of paraffin-embedded human lung cancer (A), thyroid cancer (B), lymph node (C) and brain (D) showing cytoplasmic and extracellular matrix localization using WNT5A mouse mAb with DAB staining.

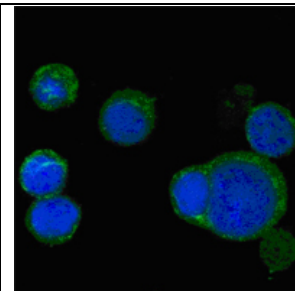


Figure 3: Confocal immunofluorescence analysis of PC-12 cells using WNT5A mouse mAb (green), showing cytoplasmic localization. Blue: DRAQ5 fluorescent DNA dye.

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