10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

WNT1 Antibody
Purified Mouse Monoclonal Antibody
Catalog # AO1313a

Specification

WNT1 Antibody - Product Information

Application	**WB, IHC, FC, ICC, E**
Primary Accession	P04628
Reactivity	**Human, Mouse**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**IgG1**
Calculated MW	**41kDa KDa**

Description
WNT1: wingless-type MMTV integration site family, member 1. 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 is very conserved in evolution, and the protein encoded by this gene is known to be 98% identical to the mouse Wnt1 protein at the amino acid level. The studies in mouse indicate that the Wnt1 protein functions in the induction of the mesencephalon and cerebellum. This gene was originally considered as a candidate gene for Joubert syndrome, an autosomal recessive disorder with cerebellar hypoplasia as a leading feature. However, further studies suggested that the gene mutations might not have a significant rolein Joubert syndrome. This gene is clustered with another family member, WNT10B, in the chromosome 12q13 region.

Immunogen
Purified recombinant fragment of WNT1 expressed in E. Coli.

Formulation
Ascitic fluid containing 0.03% sodium azide.

WNT1 Antibody - Additional Information

Gene ID 7471

Other Names
Proto-oncogene Wnt-1, Proto-oncogene Int-1 homolog, WNT1, INT1

Dilution
WB~~1/500 - 1/2000
IHC~~1/500 - 1/2000
FC~~1/200 - 1/400
ICC~~N/A
E~~N/A

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
WNT1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

WNT1 Antibody - Protein Information

Name WNT1

Synonyms INT1

Function
Ligand for members of the frizzled family of seven transmembrane receptors (Probable). Acts in the canonical Wnt signaling pathway by promoting beta-catenin-dependent transcriptional activation (PubMed:23499309, PubMed:23656646, PubMed:26902720, PubMed:28528193). In some developmental processes, is also a ligand for the coreceptor RYK, thus triggering Wnt signaling (By similarity). Plays an essential role in the development of the embryonic brain and central nervous system (CNS) (By similarity). Has a role in osteoblast function, bone development and bone homeostasis (PubMed:23499309, PubMed:23656646).

Cellular Location
Secreted, extracellular space, extracellular matrix. Secreted

WNT1 Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

WNT1 Antibody - Images

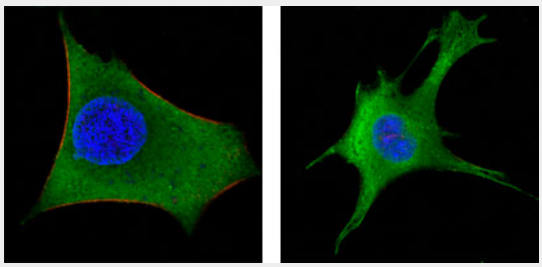

Figure3: Confocal immunofluorescence analysis of Hela (left) and 3T3-L1 (right) cells using WNT1 mouse mAb (green). Red: Actin filaments have been labeled with DY-554 phalloidin. Blue: DRAQ5

fluorescent DNA dye.

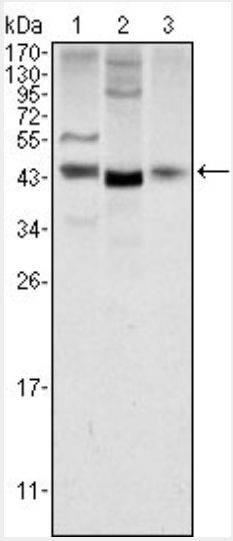

Figure 1: Western blot analysis using WNT1 mouse mAb against NIH/3T3 (1), 3T3L1 (2) and Hela (3) cell lysate.

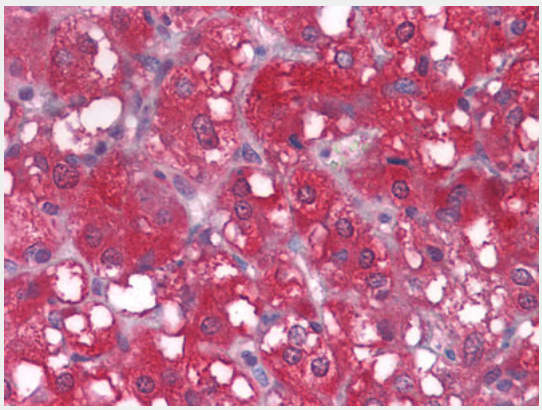

Figure 2: Immunohistochemical analysis of paraffin-embedded human LAdrenal tissues using WNT1 mouse mAb

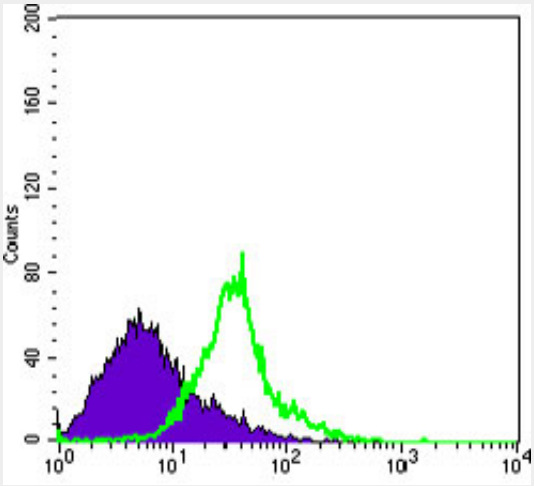

Figure 4: Flow cytometric analysis of Hela cells using WNT1 mouse mAb (green) and negative control (purple).

WNT1 Antibody - References

1. Blood. 2008 Jan 1;111(1):122-31. 2. BMC Cancer. 2005 May 24;5:53.