Anti-WNT4 Antibody [4G1]

RT1662

Product Type:	Mouse monoclonal IgG1, primary antibodies
Species reactivity:	Human, Mouse, Rat
Applications:	WB, IP, IF, IHC-P
Molecular Wt:	40 kDa
Clone number:	4G1

Description: Products of the highly conserved Wnt gene family, including Wnt-1 through Wnt-10, play key roles in regulating cellular growth and differentiation. Wnt-1 is a cysteine-rich, secreted glycoprotein that associates with cell membranes and likely functions as a key regulator of cellular adhesion. Wnt-1, which is essential for normal development of the embryonic nervous system, contributes to hyperplasia and tumorigenic progression when improperly expressed in mammary tissue. Wnt-3 is also involved in tumorigenesis, and Wnt-2 and Wnt-4 may be associated with abnormal proliferation in human breast tissue.Wnt-1, Wnt-3 and Wnt-10b have been implicated along with FGF-3 in the development of mouse mammary tumor virus-induced mouse mammary carcinomas.Wnt family members have been shown to interact with Sonic hedgehog (Shh) in vivo to induce myogenesis in somitic tissue.

Immunogen: peptide

Positive control: L929, CSMLO, ESD3, ESD5, human spleen tissue.

Subcellular location: Secreted

Database links: SwissProt: P56705 Human

Recommended Dilutions:

WB	1:1,000
IP	1-2 μg per 100-500 μg of total protein
IF	1:50-500
IHC-P	1:50-500

Storage Buffer: 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Storage Instruction: Store at +4℃

Purity: Protein A affinity purified.

Images

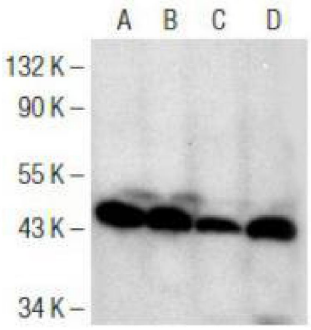

Fig1: Western blot analysis of Wnt-4 expression in L929 (A) CSMLO (B), ESD3 (C) and ESD5 (D) whole cell lysates.

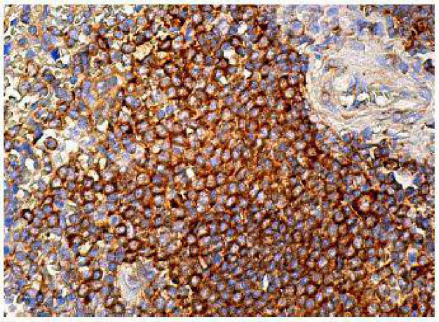

Fig2: Immunoperoxidase staining of formalin fixed, paraffin-embedded human spleen tissue showing cytoplasmic staining of cells in white pulp.

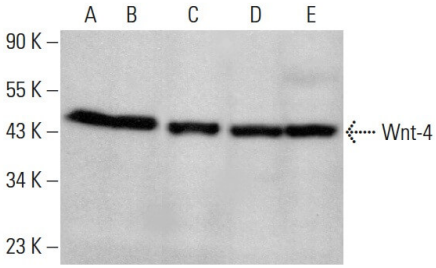

Fig3: Western blot analysis of Wnt-4 expression in HeLa (A), MCF7 (B), F9 (C) 和 BYDP (D) whole cell lysates and rat ovarian tissue extract (E).

Background References

1. Nusse, R., et al. 1992. Wnt genes. Cell 69: 1073-1087.
2. 2.Wong, G.T., et al. 1994. Differential transformation of mammary epithelial cells by Wnt genes. Mol. Cell. Biol. 14: 6278-6286.
3. Huguet, E.L., et al. 1994. Differential expression of human Wnt genes 2, 3,4, and 7B in human breast cell lines and normal and disease states of human breast tissue. Cancer Res. 54: 2615-2621.
4. Burrus, L.W., et al. 1995. Biochemical analysis of murine Wnt proteins reveals both shared and distinct properties. Exp. Cell Res. 220: 363-373.
5. Münsterberg, A.E., et al. 1995. Combinatorial signaling by Sonic hedgehog and Wnt family members induces myogenic bHLH gene expression in the somite. Genes Dev. 9: 2911-2922.
6. Schryver, B., et al. 1996. Properties of Wnt-1 protein that enable cell surface association. Oncogene 13: 333-342

Applications:WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation