

Wnt-1 Polyclonal Antibody

Product Specifications

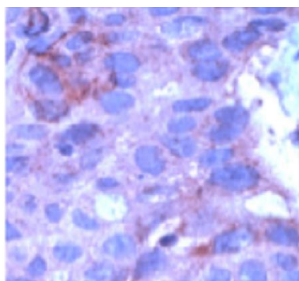
Catalog Number:	905-617
Host:	Rabbit
Species Reactivity:	Human, mouse, and rat (others not tested)
Applications: <i>The optimal dilution for a specific application must be determined by the investigator</i>	IHC: 1:100 for 10 min at RT <i>Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM citrate buffer, pH 6.0, for 10 min followed by cooling at RT for 20 min.</i>
Predicted m.w:	~41 kDa
Concentration:	See product label
Purification:	Affinity Purified
Format:	PBS, pH 7.4, with BSA and sodium azide
Storage:	Store at 4°C
Immunogen:	Synthetic peptide derived from a sequence near the N-terminus of human Wnt-1
Related Products:	
SAB-300	Goat anti-Rabbit IgG Polyclonal Antibody, HRP Conjugate
900-151	Dkk-1 (human) EIA Kit
900-144	GSK-3β (total) EIA Kit
KAM-ST001	Catenin-β Monoclonal Antibody (12F7)

Background:

The Wnt signaling system is an ancient and highly conserved pathway that acts as a major molecular mechanism that controls embryonic development¹. Secreted Wnt proteins activate Frizzled and LRP family receptors, and are inhibited by Dickkopf (Dkks), secreted frizzled-related proteins (sFRP), and Wnt-inhibitory factor (WIF) proteins¹⁻³. Wnt signaling is transmitted via both canonical (β-catenin mediated) and non-canonical (Jun kinase, Ca²⁺ mediated) pathways. Wnt-1 is one of 19 identified Wnt ligands encoded by the human genome, and is essential for normal development of the embryonic nervous system. Wnt-1 expression is normally limited to the embryonic neural tube and adult spermatids, but constitutively activating mutations in the Wnt signaling pathway are associated with tumor formation and progression⁴⁻⁶.

References:

1. Grigoryan, T., *et al.* (2008) *Genes & Dev.* **22**, 2308-2341.
2. Huang, H. and He, X. (2008) *Curr Opin Cell Biol.* **20**, 119-125.
3. Mikels, A.J. and Nusse, R. (2006) *Oncogene* **25**, 7461-7468.
4. McMahon, A.P. and Bradley, A. (1990) *Cell* **62**, 1073-1085.
5. Thomas, K.R. and Capecchi, M.R. (1990) *Nature* **346**, 847-850.
6. Fodde, R. and Brabletz, T. (2007) *Curr Opin Cell Biol.* **19**, 150-158.



Breast carcinoma stained with Wnt-1 Polyclonal Antibody

FOR RESEARCH USE ONLY; NOT FOR THERAPEUTIC OR DIAGNOSTIC USE

5777 Hines Drive • Ann Arbor, MI • 48108 | Tel: 800-833-8651 or 800-668-6113 | Fax: 734-668-2793
www.assaydesigns.com | orders@assaydesigns.com | technical@assaydesigns.com

Last Revised: 9/10/2008