Datasheet for ABIN6150246

anti-WNT4 antibody (AA 122-351)

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Overview

Quantity:	100 µL
Target:	WNT4
Binding Specificity:	AA 122-351
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This WNT4 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 122-351 of human WNT4 (NP_110388.2).
Sequence:	FAVTRACSSG ELEKCGCDRT VHGVSPQGFQ WSGCSDNIAY GVAFSQSFVD VRERSKGASS SRALMNLHNN EAGRKAILTH MRVECKCHGV SGSCEVKTCW RAVPPFRQVG HALKEKFDGA TEVEPRRVGS SRALVPRNAQ FKPHTDEDLV YLEPSPDFCE QDMRSGVLGT RGRTCNKTSK AIDGCELLCC GRGFHTAQVE LAERCSCKFH WCCFVKCRQC QRLVELHTCR
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies

Target Details

Target:	WNT4
Alternative Name:	WNT4 (WNT4 Products)
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 is a member of the WNT gene family, and is the first signaling molecule shown to influence the sex-determination cascade. It encodes a protein which shows 98 % amino acid identity to the Wnt4 protein of mouse and rat. This gene and a nuclear receptor known to antagonize the testis-determining factor play a concerted role in both the control of female development and the prevention of testes formation. This gene and another two family members, WNT2 and WNT7B, may be associated with abnormal proliferation in breast tissue. Mutations in this gene can result in Rokitansky-Kuster-Hauser syndrome and in SERKAL syndrome.,WNT4,SERKAL,WNT-4,Epigenetics & Nuclear Signaling,Translation Control,Regulation of eIF4 and p70 S6 Kinase,Cancer,Tumor suppressors,Signal Transduction,mTOR Signaling Pathway,Cell Biology & Developmental Biology,Wnt/β-Catenin Signaling Pathway,ESC Pluripotency and Differentiation,Stem Cells,WNT4
Molecular Weight:	32 kDa/39 kDa
Gene ID:	54361
UniProt:	P56705
Pathways:	WNT Signaling, Regulation of Hormone Metabolic Process, Regulation of Hormone Biosynthetic Process, Cell-Cell Junction Organization, Tube Formation

Application Details

Application Notes:	WB,1:500 - 1:2000
Comment:	HIGH QUALITY
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide

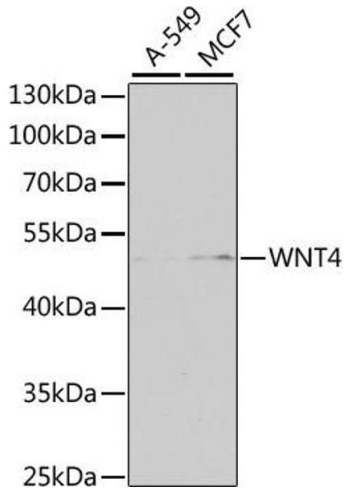
Handling

Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.

Publications

Product cited in:	Ju, Chen, Deng, Liu, Wang, Wang, Nie, Wang, Ding, Yao, Gui, Li, Xu, Ma, Song, Kvansakul, Zen, Zhang, Luo, Fang, Huang, Allis, Tan, Zeng, Wei, Zhao: "NatD promotes lung cancer progression by preventing histone H4 serine phosphorylation to activate Slug expression." in: **Nature communications**, Vol. 8, Issue 1, pp. 928, (2018) (PubMed). Liang, Yang, Guan, Lv, Qu, Fu, Zhao: "LncRNA UCA1 sponges miR-204-5p to promote migration, invasion and epithelial-mesenchymal transition of glioma cells via upregulation of ZEB1." in: **Pathology, research and practice**, Vol. 214, Issue 9, pp. 1474-1481, (2018) (PubMed).

Images



Western Blotting

Image 1. Western blot analysis of extracts of various cell lines, using WNT4 antibody (ABIN6130658, ABIN6150246, ABIN6150247 and ABIN6223774) at 1:1000 dilution.Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution.Lysates/proteins: 25 µg per lane.Blocking buffer: 3 % nonfat dry milk in TBST.Detection: ECL Basic Kit (RM00020).Exposure time: 90s.