

ARG55444 anti-Wnt4 antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes Wnt4
Tested Reactivity	Hu, Ms
Predict Reactivity	Rat
Tested Application	FACS, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	Wnt4
Species	Human
Immunogen	KLH-conjugated synthetic peptide corresponding to aa. 211-239 (Center) of Human Wnt4.
Conjugation	Un-conjugated
Alternate Names	Protein Wnt-4; SERKAL; WNT-4

Application Instructions

Application table	Application	Dilution
	FACS	1:10 - 1:50
	IHC-P	1:10 - 1:50
	WB	1:1000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	Mouse bladder	

Properties

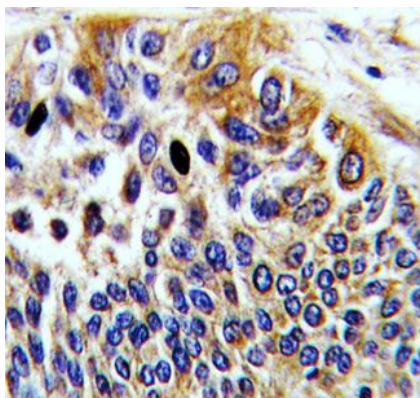
Form	Liquid
Purification	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Buffer	PBS and 0.09% (W/V) Sodium azide
Preservative	0.09% (W/V) Sodium azide
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

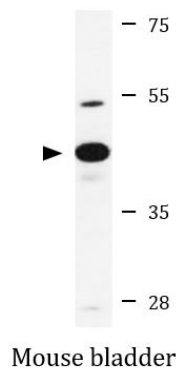
Database links	GeneID: 22417 Mouse GeneID: 54361 Human Swiss-port # P22724 Mouse Swiss-port # P56705 Human
Gene Symbol	WNT4
Gene Full Name	wingless-type MMTV integration site family, member 4
Background	The WNT gene family consists of structurally related genes which encode secreted signaling proteins. 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. [provided by RefSeq, Jul 2008]
Function	Ligand for members of the frizzled family of seven transmembrane receptors. Probable developmental protein. May be a signaling molecule which affects the development of discrete regions of tissues. Is likely to signal over only few cell diameters (By similarity). Overexpression may be associated with abnormal proliferation in human breast tissue. [UniProt]
Research Area	Cancer antibody; Developmental Biology antibody; Signaling Transduction antibody
Calculated Mw	39 kDa
PTM	Palmitoleylation is required for efficient binding to frizzled receptors. Depalmitoleylation leads to Wnt signaling pathway inhibition.
Cellular Localization	Secreted, extracellular space, extracellular matrix

Images



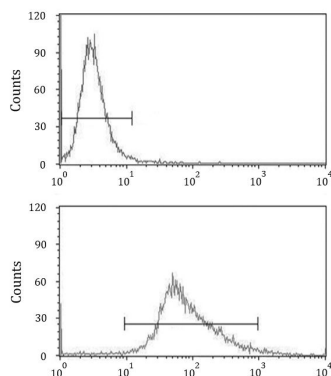
ARG55444 anti-Wnt4 antibody IHC-P image

Immunohistochemistry: Formalin-fixed and paraffin-embedded Human bladder carcinoma stained with ARG55444 anti-Wnt4 antibody.



ARG55444 anti-Wnt4 antibody WB image

Western blot: 35 μ g of Mouse bladder lysate stained with ARG55444 anti-Wnt4 antibody.



ARG55444 anti-Wnt4 antibody FACS image

Flow Cytometry: MDA-MB468 cells stained with ARG55444 anti-Wnt4 antibody (bottom histogram) or without primary antibody control (top histogram), followed by incubation with FITC labelled secondary antibody.