abcam

Product datasheet

Anti-Wnt4 antibody [9HCLC] ab277798

Recombinant

1 References 4 Images

Overview

Product name	Anti-Wnt4 antibody [9HCLC]
Description	Rabbit recombinant multiclonal [9HCLC] to Wnt4
Host species	Rabbit
Tested applications	**Suitable for:** ICC/IF, WB
Species reactivity	**Reacts with:** Human
Immunogen	**This product was produced with the following immunogens:** Synthetic peptide corresponding to Human Wnt4 aa 50-150. Database link: **P56705** Synthetic peptide corresponding to Human Wnt4 aa 200-300. Database link: **P56705** Synthetic peptide corresponding to Human Wnt4 aa 250-350. Database link: **P56705**
Positive control	WB: Jurkat, K562, HCT 116, PANC1 and HeLa whole cell extracts; A-431 cells. ICC/IF: HepG2 cells.
General notes	Recombinant multiclonals are a mixture of recombinant antibodies co-expressed from a library of heavy and light chains. Recombinant multiclonal antibodies offer the sensitivity of polyclonal antibodies by recognising multiple epitopes, along with consistency of a recombinant antibody.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.2 Preservative: 0.09% Sodium azide Constituent: 99.91% PBS
Purity	Protein A purified

Clonality	Recombinant Multiclonal
Clone number	9HCLC
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab277798 in the following tested applications.

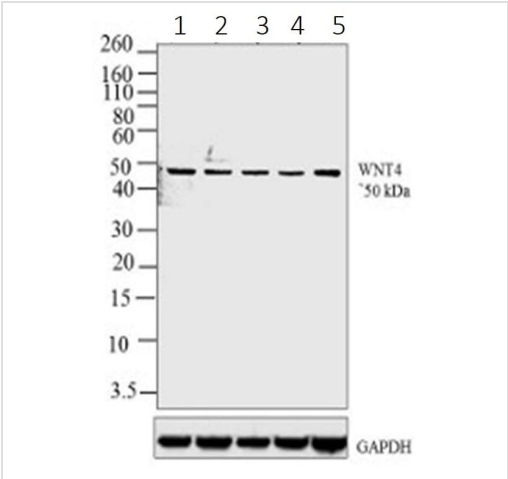
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF		Use a concentration of 0.5 µg/ml.
WB		Use a concentration of 0.5 - 1 µg/ml. Predicted molecular weight: 39 kDa.

Target

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.
Involvement in disease	Defects in WNT4 are a cause of Rokitansky-Kuster-Hauser syndrome (RKH syndrome) [MIM:277000]; also called Mayer-Rokitansky-Kuster-Hauser syndrome (MRKH syndrome or MRKH anomaly). RKH syndrome is characterized by utero-vaginal atresia in otherwise phenotypically normal female with a normal 46,XX karyotype. Anomalies of the genital tract range from upper vaginal atresia to total Muellerian agenesis with urinary tract abnormalities. It has an incidence of approximately 1 in 5'000 newborn girls. Defects in WNT4 are the cause of female sex reversal with dysgenesis of kidneys, adrenals, and lungs (SERKAL) [MIM:611812]; also known as SERKAL syndrome. Defects in WNT4 are the cause of Muellerian aplasia (MULLAPL) [MIM:158330].
Sequence similarities	Belongs to the Wnt family.
Cellular localization	Secreted > extracellular space > extracellular matrix.

Images



Western blot - Anti-Wnt4 antibody (ab277798)

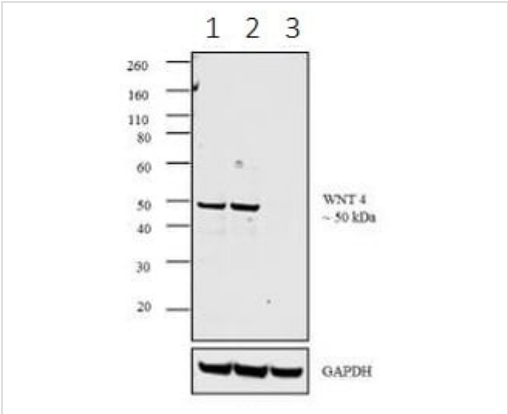
All lanes : Anti-Wnt4 antibody [9HCLC] (ab277798) at 1 µg/ml

Lane 1 : Jurkat whole cell extracts
Lane 2 : K562 whole cell extracts
Lane 3 : HCT 116 whole cell extracts
Lane 4 : PANC1 whole cell extracts
Lane 5 : HeLa whole cell extracts

Lysates/proteins at 30 µg per lane.

Secondary
All lanes : Goat anti-Rabbit IgG (H+L) Superclonal HRP conjugate at 1/2500 dilution

Predicted band size: 39 kDa



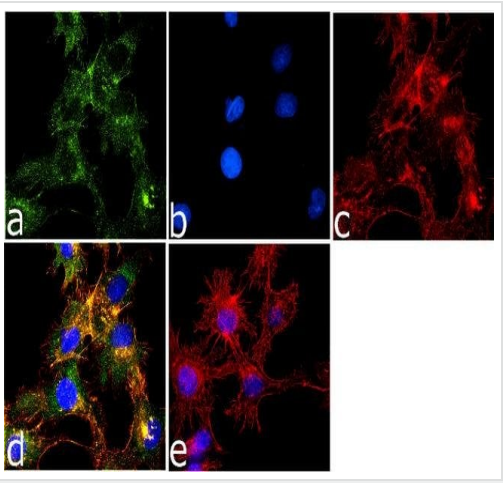
Western blot - Anti-Wnt4 antibody (ab277798)

All lanes : Anti-Wnt4 antibody [9HCLC] (ab277798) at 1 µg/ml

Lane 1 : A-431 cells untransfected
Lane 2 : A-431 cells transfected with non-specific scrambled siRNA
Lane 3 : A-431 whole cell extract with WNT4 knockdown

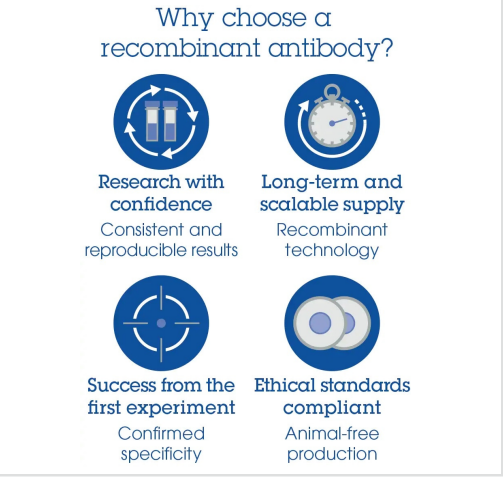
Secondary
All lanes : Goat anti-Rabbit IgG (H+L) Superclonal HRP conjugate at 1/4000 dilution

Predicted band size: 39 kDa



Immunocytochemistry/ Immunofluorescence - Anti-Wnt4 antibody [9HCLC] (ab277798)

Immunofluorescence was performed on fixed and permeabilized HepG2 cells for detection of Wnt4 using Anti-Wnt4 Recombinant Rabbit Multiclonal Antibody (ab277798, 0.5 µg/mL) and labeled with Goat anti-Rabbit IgG (H+L) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (1/2000). Panel a) shows representative cells that were stained for detection and localization of Wnt4 protein (green), Panel b) is stained for nuclei (blue) using SlowFade® Gold Antifade Mountant with DAPI. Panel c) represents cytoskeletal F-actin staining using Alexa Fluor® 555 Rhodamine Phalloidin (1/300). Panel d) is a composite image of Panels a, b and c clearly demonstrating cytoplasmic localization of Wnt4 protein. Panel e) represents control cells with no primary Antibody to assess background.



Anti-Wnt4 antibody [9HCLC] (ab277798)

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