



Rabbit Anti-Wnt16 antibody

SL9476R

Product Name:	Wnt16
Chinese Name:	信号通路Wnt16抗体
Alias:	Protein Wnt 16 precursor; Protein Wnt-16; Wingless type MMTV integration site family member 16; WNT16; WNT16 HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Pig,Cow,Rabbit,
Applications:	WB=1:500-2000ELISA=1:500-1000 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	37kDa
Cellular localization:	Extracellular matrixSecretory protein
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human Wnt16:186-365/365
Isotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	The Wnt genes encode a family of secreted extracellular signaling glycoproteins, which function in a variety of important developmental processes such as regulation of cell growth and differentiation. Wnt proteins also play roles in carcinogenesis. Wnt-14, rather than Wnt-15, is preferentially expressed in various types of human cancer. Wnt-15 is expressed in fetal and adult kidney and is most homologous to Wnt-14. Wnt-16, another member in the Wnt family, has two mRNA isoforms, Wnt-16a and Wnt-16b. These isoforms differ in the composition of their 5'UTR and first exon, which results in

differential expression. Wnt-16a is expressed only in pancreas, whereas Wnt-16b is highly expressed in adult kidney, placenta, brain, heart and spleen, but not in bone marrow. However, Wnt-16 transcripts are present in bone marrow and cell lines derived from pre-B acute lymphoblastoid leukemia patients carrying the E2A-Pbx1 hybrid gene. Thus, Wnt-16 is a downstream target of E2A-Pbx1, and the Wnt-16-mediated autocrine growth mechanism may contribute to the development of t(1;19) pre-B acute lymphoblastoid leukemias.

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

Subcellular Location:

Secreted.extracellular space, extracellular matrix.

Tissue Specificity:

Isoform Wnt-16b is expressed in peripheral lymphoid organs such as spleen, appendix, and lymph nodes, in kidney but not in bone marrow. Isoform Wnt-16a is expressed at significant levels only in the pancreas.

Post-translational modifications:

Palmitoylation at Ser-227 is required for efficient binding to frizzled receptors. It is also required for subsequent palmitoylation at Cys-81. Palmitoylation is necessary for proper trafficking to cell surface

Similarity:

Belongs to the Wnt family.

SWISS:

Q9UBV4

Gene ID:

51384

Database links:

[Entrez Gene: 51384](#)Human

[Entrez Gene: 93735](#)Mouse

[Entrez Gene: 500047](#)Rat

[Omim: 606267](#)Human

[SwissProt: Q9UBV4](#)Human

[SwissProt: Q9QYS1](#)Mouse

[Unigene: 272375](#)Human

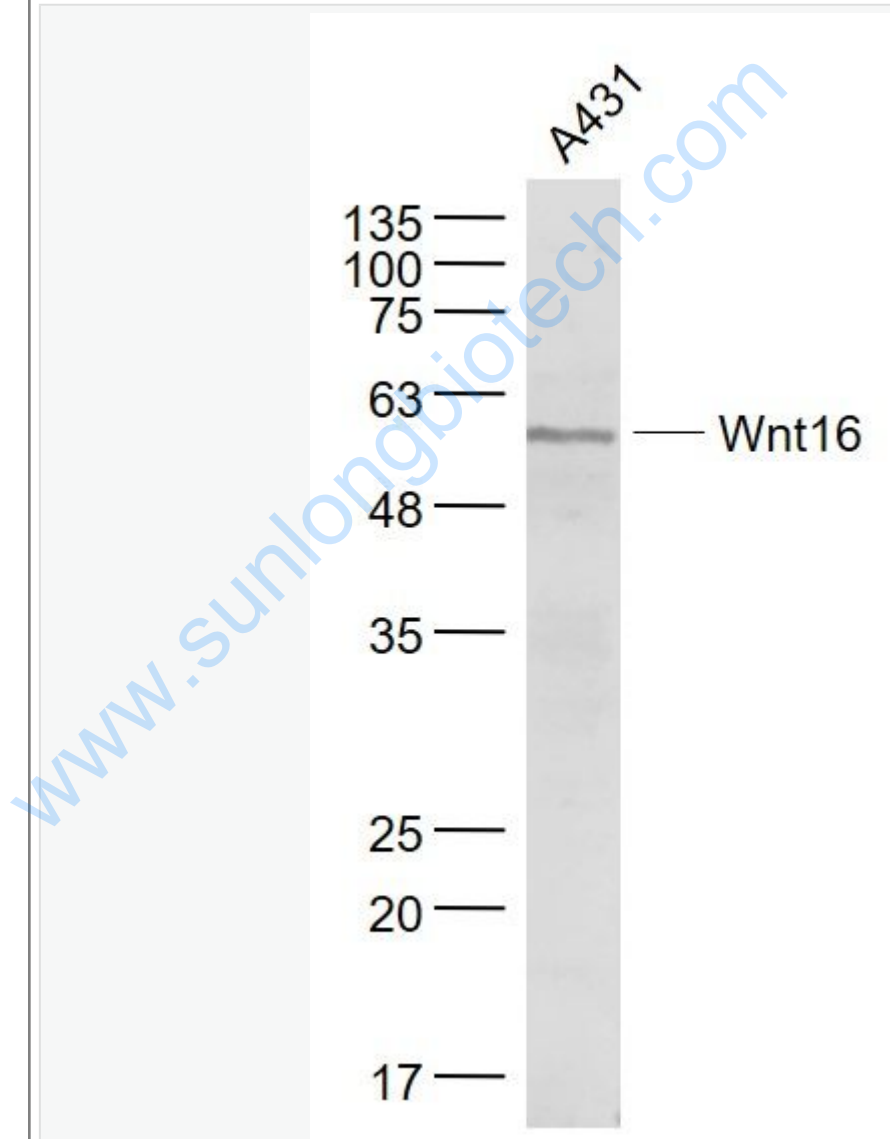
[Unigene: 137403](#)Mouse

[Unigene: 209854](#)Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Picture:



Sample:

A431(Human) Cell Lysate at 30 ug

Primary: Anti- Wnt16 (SL9476R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 37 kD

Observed band size: 56 kD

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