



Rabbit Anti-Nicalin antibody

SL11594R

Product Name:	Nicalin
Chinese Name:	γ-分泌酶组件蛋白NCLN抗体
Alias:	NCLN; NCLN_HUMAN; NET59; Nicalin; Nicalin homolog (zebrafish); Nicastrin like protein; Nicastrin-like protein.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	59kDa
Cellular localization:	cytoplasmicThe cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human Nicalin:401-500/563
Lsotype:	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:	Nicastrin is an integral part of the Alzheimers associated gamma-secretase complex. Nicalin, a nicastrin-like protein, is not associated with gamma-secretase but rather interacts with NOMO (Nodal modulator). Nodals are TGF beta signaling factors that control various cell fate decisions during embryonic body planning stages in vertebrate development. The Nicalin/NOMO complex acts to regulate the nodal signaling factors during gastrulation. This regulation most often affects the development of the axial

mesoderm. Nodal signaling is an important factor for melanoma cell invasiveness and tumorigenicity and inhibition of this signal can promote melanoma cells reverting back toward a melanocyte phenotype.

Function:

May antagonize Nodal signaling and subsequent organization of axial structures during mesodermal patterning.

Subunit:

Forms a complex with NOMO2 and TMEM147, resulting in a stabilization of the 3 proteins, which are otherwise quickly degraded by the proteasome. Due to the strong similarity between NOMO1, NOMO2 and NOMO3, probably also interacts with NOMO1 and NOMO3. Participates in a large protein complex, which is not related to the gamma-secretase complex.

Subcellular Location:

Endoplasmic reticulum membrane.

Tissue Specificity:

Highly expressed in pancreas and skeletal muscle and, at lower levels, in heart.

Similarity:

Belongs to the nicastrin family.

SWISS:

Q969V3

Gene ID:

56926

Database links:

[Entrez Gene: 56926](#) Human

[Entrez Gene: 103425](#) Mouse

[Entrez Gene: 314648](#) Rat

[Omim: 609156](#) Human

[SwissProt: Q969V3](#) Human

[SwissProt: Q8VCM8](#) Mouse

[SwissProt: Q5XIA1](#) Rat

[Unigene: 657032](#) Human

[Unigene: 302791](#) Mouse

[Unigene: 4202](#) Rat

Important Note:

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

Nicastrin(NCT)是高度糖基化的I型Transmembrane protein,是 γ -分泌酶复合物的重要组件蛋白之一,广泛分布于人类或鼠的所有细胞类型。它不仅与 γ -分泌酶的组装和成熟密切相关,其构象及表达变化对 γ -分泌酶活性和阿尔茨海默病(Alzheimer's disease,AD)中 β 淀粉样蛋白(amyloid protein β ,A β)的产生及降解也起重要调节作用。

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