

## Product datasheet for **TA321659**

### NOTCH4 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC
Recommended Dilution:	IHC: 25-50 Positive control: Human esophagus cancer Predicted cell location: Cell membrane
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Synthetic peptide corresponding to a region derived from C' 1989-2003 amino acids of Human notch 4
Formulation:	PBS pH7.3, 0.05% NaN <sub>3</sub> , 50% glycerol
Concentration:	lot specific
Purification:	Antigen affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	notch 4
Database Link:	<a href="#">NP_004548</a> <a href="#">Entrez Gene 4855 Human</a> <a href="#">Q99466</a>



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**Background:**

This gene encodes a member of the Notch family. Members of this Type 1 transmembrane protein family share structural characteristics including an extracellular domain consisting of multiple epidermal growth factor-like (EGF) repeats; and an intracellular domain consisting of multiple; different domain types. Notch family members play a role in a variety of developmental processes by controlling cell fate decisions. The Notch signaling network is an evolutionarily conserved intercellular signaling pathway which regulates interactions between physically adjacent cells. In *Drosophila*; notch interaction with its cell-bound ligands (delta; serrate) establishes an intercellular signaling pathway that plays a key role in development. Homologues of the notch-ligands have also been identified in human; but precise interactions between these ligands and the human notch homologues remain to be determined. This protein is cleaved in the trans-Golgi network; and presented on the cell surface as a heterodimer. This protein functions as a receptor for membrane bound ligands; and may play a role in vascular; renal and hepatic development. This gene may be associated with susceptibility to schizophrenia in a small portion of cases. An alternative splice variant has been described but its biological nature has not been determined.

**Synonyms:**

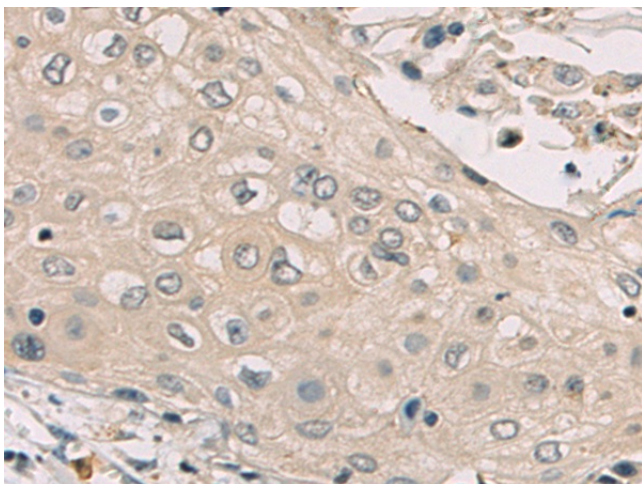
INT3

**Protein Families:**

Druggable Genome

**Protein Pathways:**

Dorso-ventral axis formation, Notch signaling pathway

**Product images:**

Immunohistochemistry of paraffin-embedded Human esophagus cancer tissue using TA321659 (NOTCH4 Antibody) at dilution 1/20. (Original magnification:  $\times 200$ )