

Rat Notch 2 Antibody Pair Set

Catalog No.	E-KAB-0389	Applications	ELISA
Synonyms	AGS2, hN2, N2ECD, N2ICD, Notch-2		

Kit components & Storage

Title	Specifications	Storage
Rat Notch 2 Capture Antibody	1 vial, 100 µg	Store at -20°C for one year. Avoid freeze / thaw cycles.
Rat Notch 2 Detection Antibody (Biotin)	1 vial, 50 µL	Store at -20°C for one year. Avoid freeze / thaw cycles.

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Product Information

Items		Characteristic (E-KAB-0389)	
		Rat Notch 2 Capture Antibody	Rat Notch 2 Detection Antibody (Biotin)
Immunogen Information	Immunogen	Recombinant Rat Notch 2 protein	Recombinant Rat Notch 2 protein
	Swissprot	Q9QW30	
Product details	Reactivity	Rat	Rat
	Host	Mouse	Goat
	Conjugation	Unconjugated	Biotin
	Concentration	0.5mg/mL	/
	Buffer	PBS with 0.04% Proclin 300, 50% glycerol, pH 7.4	PBS with 0.04% Proclin 300, 1% protective protein, 50% glycerol, pH 7.4
	Purify	Protein A or G	Antigen Affinity
	Specificity	Detects Rat Notch 2 in ELISAs.	

Applications

Rat Notch 2 Sandwich ELISA Assay:

	Recommended Concentration/Dilution	Reagent	Images																
ELISA Capture	0.5-4µg/mL	Rat Notch 2 Capture Antibody	<table border="1"> <caption>Approximate data points from the standard curve</caption> <thead> <tr> <th>Rat Notch 2 concentration (pg/mL)</th> <th>Optical Density</th> </tr> </thead> <tbody> <tr> <td>100</td> <td>0.08</td> </tr> <tr> <td>200</td> <td>0.12</td> </tr> <tr> <td>500</td> <td>0.25</td> </tr> <tr> <td>1000</td> <td>0.45</td> </tr> <tr> <td>2000</td> <td>0.8</td> </tr> <tr> <td>5000</td> <td>1.5</td> </tr> <tr> <td>10000</td> <td>2.5</td> </tr> </tbody> </table>	Rat Notch 2 concentration (pg/mL)	Optical Density	100	0.08	200	0.12	500	0.25	1000	0.45	2000	0.8	5000	1.5	10000	2.5
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ELISA Detection	1:1000-1:10000	Rat Notch 2 Detection Antibody (Biotin)																	

Note: This standard curve is only for demonstration purposes. A standard curve should be generated for each assay!

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. Two transcript variants encoding different isoforms have been found for this gene.