

# **Chicken Netrin-2 Antibody**

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF127

DESCRIPTION			
Species Reactivity	Chicken		
Specificity	Detects chicken Netrin-2 in direct ELISAs and Western blots. In direct ELISAs, approximately 10% cross-reactivity with recombinant chicker Netrin-1 is observed and less than 1% cross-reactivity with recombinant human Netrin-4, recombinant mouse (rm) Netrin-G1a and rmNetrin-G2a is observed.		
Source	Polyclonal Goat IgG		
Purification	Antigen Affinity-purified		
Immunogen	Mouse myeloma cell line NS0-derived recombinant chicken Netrin-2 Ala16-Pro581 Accession # Q90923		
Endotoxin Level	<0.10 EU per 1 µg of the antibody by the LAL method.		
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.		

#### APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

rease Note. Optimal diliditors should be determined by each application. General Protocols are available in the Technical Information Section on our website.			
	Recommended Concentration	Sample	
Western Blot	0.1 μg/mL	Recombinant Chicken Netrin-2 (Catalog # 127-N2)	
Blockade of Receptor-ligand Interaction	Chicken Netrin-2 (Cat	, 1-5 µg/mL of this antibody will block 50% of the binding of 50 ng/mL of Recombinant alog # 127-N2) to immobilized Recombinant Rat UNC5H2 Fc Chimera (Catalog # 1006-UN) 10 µL/well). At 100 µg/mL, this antibody will block >90% of the binding.	

PREPARATION AND STORAGE		
Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.	
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C	
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.  12 months from date of receipt, -20 to -70 °C as supplied.  1 month, 2 to 8 °C under sterile conditions after reconstitution.	

• 6 months, -20 to -70 °C under sterile conditions after reconstitution

#### BACKGROUND

Netrins are laminin-like axon guidance molecules that are conserved among *C. elegans*, *Drosophila*, and vertebrates. The chicken Netrin-2 cDNA encodes a precursor protein that has structural similarity to the N-terminus of B2 or the y-chain of laminin. The mature Netrin-2 protein has 581 amino acid (aa) which contains a 245 aa domain VI, a 169 aa domain V with three cysteine/glycine rich EGF repeats and a unique 152 aa domain C that enriches in basic aa residues and contains an RGD motif. Chicken Netrin-2 shares 72% aa identity with chicken Netrin-1, 51% aa identity with *C. elegans* UNC-6 protein and 57% aa identity with human NTN2L (Netrin-2-like). Although only two chicken netrins are known, the number of known mammalian netrins is growing. Mouse Netrin-3 and Netrin-4 were recently reported. Netrin-2 was expressed in the chick brain and spinal cord from E6 through to the adult. In addition, expression of Netrin-2 was observed at various stages in several mesodermally and endodermally derived tissues, including lung, gut, ovary, testes and spleen. Netrins act to both attract and repel the growing axons of a broad range of neuronal cell types during development. These actions are mediated by specific receptor complexes containing either the DCC (colorectal carcinoma) or neogenin, in the case of attractant, or UNC-5-related proteins, in the case of repellent.

### References:

- 1. Serafini, T. et al. (1994) Cell 78:409.
- 2. Kennedy, T.E. et al. (1994) Cell 78:425.
- 3. Livesey, F.J. (1999) Cell. Mol. Life Sci. **56**:62.

## PRODUCT SPECIFIC NOTICES

This product or the use of this product is covered by U.S. Patents owned by The Regents of the University of California. This product is for research use only and is not to be used for commercial purposes. Use of this product to produce products for sale or for diagnostic, therapeutic or drug discovery purposes is prohibited. In order toobtain a license to use this product for such purposes, contact The Regents of the University of California.

U.S. Patent # 5,565,331, 6,096,866, 6,017,714, 6,309,638, 6,670,451, and other U.S. and international patents pending.

biotechne