

#### DESCRIPTION

|                           |                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Chicken                                                                                                                                                                                                                                                                     |
| <b>Specificity</b>        | Detects chicken Netrin-2 in direct ELISAs and Western blots. In direct ELISAs, approximately 10% cross-reactivity with recombinant chicken Netrin-1 is observed and less than 1% cross-reactivity with recombinant human Netrin-4, recombinant mouse (rm)                   |
| <b>Source</b>             | Polyclonal Goat IgG                                                                                                                                                                                                                                                         |
| <b>Purification</b>       | Antigen Affinity-purified                                                                                                                                                                                                                                                   |
| <b>Immunogen</b>          | Mouse myeloma cell line NS0-derived recombinant chicken Netrin-2<br>Ala16-Pro581<br>Accession # Q90923                                                                                                                                                                      |
| <b>Conjugate</b>          | Alexa Fluor 350<br>Excitation Wavelength: 346 nm<br>Emission Wavelength: 442 nm                                                                                                                                                                                             |
| <b>Formulation</b>        | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide<br><br>*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions. |

#### 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.

**Western Blot** Optimal dilution of this antibody should be experimentally determined.

**Blockade of Receptor-ligand Interaction** Optimal dilution of this antibody should be experimentally determined.

#### PREPARATION AND STORAGE

**Shipping** The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

**Stability & Storage** Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

#### 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 γ-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.

#### PRODUCT SPECIFIC NOTICES

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