



# Anti-mouse Netrin-4 Antibody

## ORDERING INFORMATION

**Catalog Number:** AF1132

**Lot Number:** USR01

**Size:** 100 µg

**Formulation:** 0.2 µm filtered solution in PBS with 5% trehalose

**Storage:** -20° C

**Reconstitution:** sterile PBS

**Specificity:** mouse Netrin-4

**Immunogen:** NS0-derived rmNetrin-4

**Ig Type:** goat IgG

**Applications:** Western blot  
Blocking of receptor-ligand interaction  
Immunohistochemistry  
Direct ELISA

## Preparation

Produced in goats immunized with purified, NS0-derived, recombinant mouse Netrin-4 (rmNetrin-4). Mouse Netrin-4 specific IgG was purified by mouse Netrin-4 affinity chromatography.

## Formulation

Lyophilized from a 0.2 µm filtered solution in phosphate-buffered saline (PBS) with 5% trehalose.

## Endotoxin Level

< 0.1 EU per 1 µg of the antibody as determined by the LAL method.

## Reconstitution

Reconstitute with sterile PBS. If 0.5 mL of PBS is used, the antibody concentration will be 0.2 mg/mL.

## Storage

Lyophilized samples are stable for twelve months from date of receipt when stored at -20° C to -70° C. Upon reconstitution, the antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. Reconstituted antibody can also be aliquotted and stored frozen at -20° C to -70° C **in a manual defrost freezer** for six months without detectable loss of activity. **Avoid repeated freeze-thaw cycles.**

## Specificity

This antibody has been selected for its ability to block receptor-ligand interaction. In direct ELISAs and Western blots, this antibody shows approximately 25% cross-reactivity with rhNetrin-4 and less than 1% cross-reactivity with rmNetrin-1, rchNetrin-2 and rmNetrin G1a.

## Applications

**Western blot** - This antibody can be used at 0.1 - 0.2 µg/mL with the appropriate secondary reagents to detect mouse Netrin-4. The detection limit for rmNetrin-4 is approximately 2 ng/lane under non-reducing and reducing conditions.

**Blocking of receptor-ligand interaction** - Approximately 0.08 - 0.24 µg/mL of this antibody will block 50% of the binding of 10 ng/mL of rmNetrin-4 to immobilized rrUNC5H2/Fc chimera (100 µL of a 2 µg/mL solution was coated in each well) in a functional ELISA. At 10 µg/mL, this antibody will achieve 100% blocking in the assay.

**Immunohistochemistry** - This antibody will detect Netrin-4 in cells and tissues. The working dilution is 2 - 15 µg/mL. For chromogenic detection of labeling, use R&D Systems Cell and Tissue Staining Kits (CTS Series).

**Direct ELISA** - This antibody can be used at 0.5 - 1.0 µg/mL with the appropriate secondary reagents to detect mouse Netrin-4. The detection limit for rmNetrin-4 is approximately 0.3 ng/well.

**Optimal dilutions should be determined by each laboratory for each application.**

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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.

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