

Mouse Neuropoietin/NP Antibody

Monoclonal Rat IgG₁ Clone # 321525 Catalog Number: MAB2709

DESCRIPTION	
Species Reactivity	Mouse
Specificity	Detects mouse Neuropoietin/NP in direct ELISAs and Western blots.
Source	Monoclonal Rat IgG ₁ Clone # 321525
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	E. coli-derived recombinant mouse Neuropoietin/NP Ala23-Ala204 Accession # P83714
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.	
	Recommended Sample Concentration

PREPARATION AND STORAGE	
Reconstitution	Reconstitute at 0.5 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.

Recombinant Mouse Neuropoietin/NP (Catalog # 2709-NP)

12 months from date of receipt, -20 to -70 °C as supplied.

1 µg/mL

- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Western Blot

Neuropoietin (NP; also known as cardiotrophin-2) is a 22 kDa member of the IL-6 family of cytokines. Considered to be the product of a gene duplication event involving cardiotrophin-1 (CT-1), it helps to define a subfamily within the IL-6 family that includes CT-1, CLC and CTNF. Mouse neuropoietin is synthesized as a 204 amino acid (aa) precursor that contains a 22 aa signal sequence and a 192 aa mature segment. The secreted molecule is characterized by the presence of four αhelices, typical of hematopoietic superfamily molecules. Mature mouse neuropoietin shares 88%, 90% and 95% aa identity to chimpanzee, canine and rat neuropoietin, respectively. The human gene is suggested to have evolved towards a pseudogene, a point of interest in that neuropoietin is reported to signal through the CNTF complex (i.e., gp130, CNTF Rα and LIF R). NP will mediate motor neuron survival, and appears to be selectively expressed in the embryo by tissues involved with nervous system development (1).

References:

1. Derouet, D. et al. (2004) Proc. Natl. Acad. Sci. USA 101:4827.

