

## Mouse monoclonal antibody to rat p75NTR [MC192], Saporin-conjugated

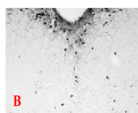
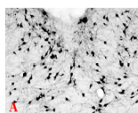
<b>Catalogue No.:</b>	M-1755-100-IT
<b>Description:</b>	MC192-saporin is an antibody conjugate comprising of the monoclonal antibody MC192 against rat p75NTR, the nerve growth factor receptor, chemically conjugated via a reducible disulfide bridge to the ribosome-inactivating protein saporin, purified from saponaria officinalis. Unconjugated saporin is incapable of entering the cells due to the apparent lack of ligand. Upon specific binding via MC192 to the cells expressing p75NTR, saporin transverses the cell membrane leading to lesion of neurochemically defined neuronal populations. The targets of MC192-Saporin are p75NTR-expressing cells including cholinergic neurons of the basal forebrain, cerebellar Purkinje cells, medial septum, diagonal band of Broca, Nucleus basalis of Meynert and some tumour cells. MC192-saporin has been used in the study of learning and memory and its primary application is in vivo, MC192-saporin is specific for applications in rat. The antibody does not cross-react with human or mouse p75NTR receptors.
<b>Related products:</b>	M-1755-25-IT, Mouse monoclonal antibody to rat p75NTR [MC192], Saporin-conjugated, 25 ug M-1755-50-IT, Mouse monoclonal antibody to rat p75NTR [MC192], Saporin-conjugated, 50 ug M-1792-100-IT, Non-specific monoclonal IgG control antibody [X63], Saporin-conjugated, 100 ug M-006-100, Mouse monoclonal antibody to rat p75NTR [MC192]: IgG1 PE-001-100, Purified Saporin R-025-100, Rabbit antibody to Saporin: whole serum
<b>Batch No.:</b>	See product label.
<b>Unit size:</b>	100 ug
<b>Antigen:</b>	Rat NGF receptor (p75NTR)
<b>Isotype:</b>	IgG1
<b>Other Names:</b>	Low-affinity nerve growth factor receptor; NGF receptor; Gp80-LNGFR; p75 ICD; Low affinity neurotrophin receptor p75NTR
<b>Accession:</b>	TNR16_RAT RIP6_SAPOF
<b>Produced in:</b>	Mouse monoclonal antibody clone MC192 was IgG-purified from culture supernatant.
<b>Molecular Weight:</b>	The average molecular weight of the MC192-saporin conjugate is approximately 210 kDa.
<b>Handling:</b>	Only qualified personnel should handle this product. MC192 antibody does not bind to human p75NTR receptor, however, standard laboratory protective measures should be followed, including wearing lab coat, gloves and safety glasses. Avoid contact with open wounds and practice good laboratory technique to avoid auto-exposure/auto-injection! Avoid contact of conjugate with reducing agents (eg., DTT, beta-mercaptoethanol) as this will destroy the antibody-saporin conjugate.
<b>Purity:</b>	> 90% by non-reducing SDS-PAGE
<b>Biol. activity:</b>	Routinely tested for dose-dependent killing of rat C6 cells in vitro. Note that the primary use of MC192-saporin is for in vivo applications in rat. Effective MC192-saporin concentrations must be determined for every new batch.

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FOR RESEARCH USE ONLY

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- Applications:** 1. To specifically target and eliminate rat cells expressing p75NTR in vivo. MC192-saporin has been used to selectively lesion cholinergic neurons of basal forebrain to create an animal model to study Alzheimer's disease. 2. To be used as a model for gene delivery into neurons. Biosensis recommends optimal dilutions/concentrations should be determined by the end user.
- Specificity:** MC192 antibody is specific only for rat NGFR, no reactivity to human or mouse NGFR has been reported
- Cross-reactivity:** This monoclonal antibody does not cross react with p75NTR-expressing cells in other species than rat.
- Conjugate:** MC192 antibody is chemically linked to saporin via a disulfide bridge.
- Form:** Liquid. Provided as 1 mg/mL conjugate in PBS, pH 7.2-7.6, without preservative.
- Storage:** Product is shipped on ice packs and may arrive thawed. Upon receipt, pulse-centrifuge the vial to collect any liquid that may be entrapped in the lid. Immediately prepare aliquots and keep the undiluted stock at -80°C for long-term storage. Avoid repeated thaw-freezing. For short-term storage, keep at 2-8°C for up to 2 weeks. It is recommended to handle this product under sterile conditions.
- Expiry Date:** 12 months from receipt when stored at -80°C (undiluted conjugate only).
- General References:**
1. Lehmann, O. et al (2003) Eur J Neurosci 18, 651-666
  2. Power, A. E. et al (2002) Proc Natl Acad Sci U S A 99, 2315-2319
  3. Perry, T. et al (2001) Brain Res Bull 54, 29-48
  4. Wirth, S. et al (2000) Neuroreport 11, 347-350
  5. Sherren, N. et al (1999) Brain Res Dev Brain Res 114, 49-62



Immunohistochemical staining of p75NTR in rat forebrain. (A) Brain section from a control rat. (B) Brain section from a rat injected intraventricularly with 4 µg of 192-Saporin. Seven days after the treatment the rat was perfused with 4% paraformaldehyde and free floating section at 40 µm was used for staining.

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