

**Mouse Monoclonal Anti-Tenascin-R Antibody (clone 2)**

<b>Catalog number</b>	mTN-R2
<b>Amount</b>	100 µg
<b>Concentration</b>	2 mg/ml
<b>Specificity</b>	R2 monoclonal antibody reacts with functional epitope present on both 160 kD and 180 kD molecular forms of tenascin-R (TN-R) in many vertebrate species. The R2 epitope is involved in TN-R-mediated axon guidance by its interaction with F3/contactin at the axonal membrane surface.
<b>Description</b>	TN-R is a member of the tenascin family of matrix glycoproteins which is expressed exclusively in the central nervous system (CNS) of vertebrates by oligodendrocytes and subsets of neurons (motoneurons and interneurons) at later developmental stages and in adult. In the mammalian CNS, TN-R exists in two major protein forms of 160 and 180 kD mostly associated with oligodendrocytes, myelinated axons, perineuronal nets of motoneurons and interneurons, and synapse-rich regions. TN-R proteins have been implicated in the molecular control of axon guidance, synaptogenesis, myelination, neural cell adhesion, migration and differentiation during CNS development and pathology.
<b>Immunogen</b>	Glycoprotein fraction from chicken brain.
<b>Isotype</b>	IgG1
<b>Format</b>	Purified immunoglobulin (by Protein G affinity chromatography).
<b>Species reactivities</b>	Different mammals (including human, porcine, bovine, rabbit, mouse and rat), birds, reptiles, and amphibians.
<b>Presentation</b>	In phosphate buffered saline (PBS), pH 7.4, containing 0.1% bovine serum albumin and 0.05% sodium azide.
<b>Storage/Stability</b>	For continuous use, store at 2-8°C for up to 6 months after receipt. For extended storage, freeze in working aliquots and store at -20°C or lower. Avoid repeated freezing and thawing which might result in a partial loss of antibody activity.
<b>Applications</b>	Western blot: 1:2000-4000 (ECL detection) ELISA: 1:2000-5000 Immunocytochemistry: 1:100-400 Optimal working dilutions should be determined for specific applications.
<b>Quality control</b>	P.Glia antibodies are routinely tested in ELISA, Western blot and immunocytochemistry of primary neural cell cultures.
<b>Product use</b>	For research use only. Not for diagnostic and therapeutic use in humans or animals.
<b>References</b>	1. Pesheva P et al. Mol. Cell. Neurosci. 32: 366-386 (2006). 2. Pesheva P and Probstmeier R. Prog. Neurobiol. 61: 465-493 (2000). 3. Pesheva P et al. Neuron 10: 69-82 (1993).