

Polyclonal Anti-TNR Antibody

Catalog Number: PA1695-1

Description

Gene Name	tenascin R
Recommended Protein Name	Tenascin-R(TN-R)
Lot No.	0161312c049548
Size	100µg/vial
Form	lyophilized
Ig type	Rabbit IgG
Specificity	No cross reactivity with other proteins.
Purification	Immunogen affinity purified.
Species	Reacts with: human, mouse, rat
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of mouse TNR(104-117aa QTSDHESQVTFTHK), identical to the related rat sequence, and different from the related human sequence by one amino acid.
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg NaN ₃ .

Application

	Concentration	Tested Species	Predicted Species	Antigen Retrieval
Western blot	0.1-0.5µg/ml	Hu, Ms, Rat	-	-
Immunohistochemistry (Paraffin-embedded Section)	0.5-1µg/ml	Rat	Hu, Ms	By Heat

WB: The detection limit for TNR is approximately 3ng/lane under reducing conditions.

Tested Species: In-house tested species with positive results.

Predicted Species: Species predicted to be fit for the product based on sequence similarities.

By Heat: Boiling the paraffin sections in 10mM citrate buffer, pH6.0, for 20mins is required for the staining of formalin/paraffin sections.

Other applications have not been tested.

Optimal dilutions should be determined by end users.

Preparation and storage

Reconstitution: 0.2ml of distilled water will yield a concentration of 500µg/ml.

Storage: At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time.

Avoid repeated freezing and thawing.

Relevant detection systems

Boster provides a series of assays reacted with primary antibodies. Antibody can be supported by chemiluminescence kit EK1002 in WB, supported by SA1022 in IHC(P).

Background

Tenascin-R is a protein that in humans is encoded by the TNR gene. Tenascin-R (TNR) is an extracellular matrix protein expressed primarily in the central nervous system. It is a member of the tenascin (TN) gene family, which includes at least 3 genes in mammals: TNC (or hexabrachion), TNX (TNXB), and TNR. The genes are expressed in distinct tissues at different times during embryonic development and are present in adult tissues. TNR has been detected predominantly in the central nervous system and is localized around motor neurons and on motor axons in the spinal cord, cerebellum, hippocampus, and olfactory bulb. It is suggested that tenascin-R has a role in initiating the detachment of neuroblasts from tangential chains and in initiating radial migration of the cells.

Reference

1. Leprini, A., Gherzi, R., Siri, A., Querze, G., Viti, F., Zardi, L. The human tenascin-R gene. *J. Biol. Chem.* 271: 31251-31254, 1996.
2. Saghatelian, A., de Chevigny, A., Schachner, M., Lledo, P.-M. Tenascin-R mediates activity-dependent recruitment of neuroblasts in the adult mouse forebrain. *Nature Neurosci.* 7: 347-356, 2004.
3. Williams, H., Schachner, M., Wang, B., Kenwrick, S. Radiation hybrid mapping of the genes for tenascin-R (TNR), phosphocyanin (PDC), Laminin C1 (LAMC1), and TAX in 1q25-q32. *Genomics* 46: 165-166, 1997.