



Catalog Number:	RA19067	Host:	Rabbit
Product Type:	Affinity Purified	Species:	Rat, Mouse
Immunogen Sequence:	Synthetic peptide comprising residues 513-526 [TERHGLKEPKRVEE] of the human Nurr1 protein. Reacts with rat and mouse Nurr1.	Reactivity:	
		Format:	Liquid Concentration of 1mg/ml in PBS containing 0.02% sodium azide.
Applications:	Immunohistochemistry: 1:100-1:200 Western Blot: 1:1,000-1:2,000		
Publications:	Dilutions listed as a recommendation. Optimal dilution should be determined by investigator. Martinat, C., Bacci, J.-J., Leete, T., Kim, J., Vanti, W. B., Newman, A. H., Cha, J. H., Gether, U., Wang, H. and Abeliovich, A. Cooperative transcription activation by Nurr1 and Pitx3 induces embryonic stem cell maturation to the midbrain dopamine neuron phenotype. <i>Proc. Nat. Acad. Sci.</i> 103: 2874-2879, 2006. Hering, R., Petrovic, S., Mietz, E.-M., Holzmann, C., Berg, D., Bauer, P., Weitalla, D., Muller, T., Berger, K., Kruger, R. and Riess, O. Extended mutation analysis and association studies of Nurr1 (NR4A2) in Parkinson disease. <i>Neurology</i> 62: 1231-1232, 2004. Law, S. W., Conneely, O. M., DeMayo, F. J. and O'Malley, B. W. Identification of a new brain-specific transcription factor, NURR1. <i>Molec. Endocr.</i> 6: 2129-2135, 1992. Mages, H. W.; Rilke, O.; Bravo, R.; Senger, G.; Kroczyk, R. A. NOT, a human immediate-early response gene closely related to the steroid/thyroid hormone receptor NAK1/TR3. <i>Molec. Endocr.</i> 8: 1583-1591, 1994.		
Storage:	Maintain at +2-8°C for 3 months or at -20°C for longer periods. Stable for 1 year. Avoid repeated freeze-thaw cycles.		

Application Notes

Description/Data:

Alternate Names: NOT; NURR1; TINUR; Nuclear Receptor of T Cells; Nuclear Receptor Related 1; Transcriptionally Inducible Nuclear Receptor; Nuclear Receptor Subfamily 4, group A, member 2; nuclear receptor subfamily 4, group A, member 2.

The Nurr1 gene encodes a member of the steroid-thyroid hormone- retinoid receptor superfamily. The encoded protein may act as a transcription factor. Mutations in this gene have been associated with disorders related to dopaminergic dysfunction, including Parkinson's.

Nurr1 is a stem cell marker and cooperates with PITX3 to promote terminal maturation of murine and human embryonic stem cell cultures to a midbrain dopamine neuron phenotype. In addition, Nurr1 is involved in the regulation of corticotropin-releasing hormone (CRH), which may be linked to and associated with rheumatoid arthritis.

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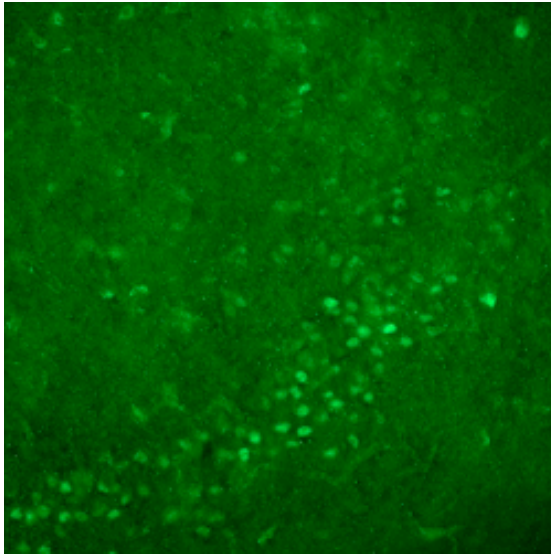
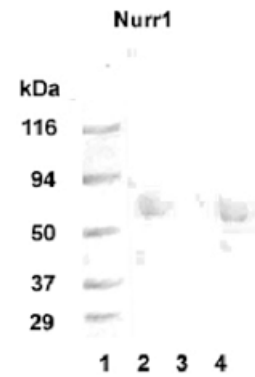


Image: Nurr1 staining of rat adult hippocampus. Tissue was fixed in paraformaldehyde and cut in 20 micron sections. Dilution 1:100.



Western blot detection of Nurr1 in 20 ug of human hippocampus tissue lysate (lanes 2 and 4) with Nurr1 polyclonal at 1:1000 dilution followed by AP-conjugated secondary at 1:5000 dilution. MW marker lane 1. Peptide absorption control lane 3.

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