

Resource Summary Report

Generated by [dkNET](#) on Sep 21, 2026

RRID NOT VALID - THIS IS NOT AN ANTIBODY: NeuroTrace® 640/660 Deep-Red Fluorescent Nissl Stain

RRID:AB_2572212

Type: Antibody

Proper Citation

Thermo Fisher Scientific Cat# N21483, RRID:AB_2572212

Antibody Information

URL: http://antibodyregistry.org/AB_2572212

Proper Citation: Thermo Fisher Scientific Cat# N21483, RRID:AB_2572212

Clonality: polyclonal

Comments: Deep-Red (640-660) fluorescent Nissl Stain for immunohistochemistry; this is a chemical stain not an antibody.

Antibody Name: RRID NOT VALID - THIS IS NOT AN ANTIBODY: NeuroTrace® 640/660 Deep-Red Fluorescent Nissl Stain

Description: This polyclonal targets

Antibody ID: AB_2572212

Vendor: Thermo Fisher Scientific

Catalog Number: N21483

Record Creation Time: 20231110T035120+0000

Record Last Update: 20260831T214625+0000

Ratings and Alerts

No rating or validation information has been found for RRID NOT VALID - THIS IS NOT AN ANTIBODY: NeuroTrace® 640/660 Deep-Red Fluorescent Nissl Stain.

No alerts have been found for RRID NOT VALID - THIS IS NOT AN ANTIBODY:
NeuroTrace® 640/660 Deep-Red Fluorescent Nissl Stain.

Data and Source Information

Source: [Antibody Registry](#)

Usage and Citation Metrics

We found 60 mentions in open access literature.

Listed below are recent publications. The full list is available at [dkNET](#) .

Abdelmageed M, et al. (2026) An altered cell-specific subcellular distribution of translesion synthesis DNA polymerase kappa (POLK) in aging mouse neurons. *eLife*, 13.

Liu X, et al. (2025) Epac2-mediated synaptic insertion of Ca²⁺-permeable AMPARs in the nucleus accumbens contributes to incubation of cocaine craving. *Neuropsychopharmacology : official publication of the American College of Neuropsychopharmacology*, 50(4), 620.

Jiao H, et al. (2025) Time-restricted feeding provides limited microglial immunometabolic improvements in diet-induced obese rats. *Cell reports*, 44(10), 116380.

Wang H, et al. (2025) Conditional mGluR5 knockout in glutamatergic pathways disrupts the development of excitatory synaptic transmission onto mouse MNTB neurons. *Journal of neurophysiology*, 134(5), 1749.

Huang X, et al. (2025) Bright-light treatment ameliorates motor and non-motor deficits through distinct visual circuits in a mouse model of Parkinson's disease. *Cell reports*, 44(6), 115865.

Liu S, et al. (2025) Neural basis of transcutaneous electrical nerve stimulation for neuropathic pain relief. *Neuron*.

van Adrichem JJ, et al. (2025) Progressive remote memory decline coincides with parvalbumin interneuron hyperexcitability and enhanced inhibition of cortical engram cells in a mouse model of Alzheimer's disease. *eLife*, 14.

Ficchi S, et al. (2025) Optogenetic stimulation of midbrain dopaminergic neurons rescues hippocampal synaptic plasticity deficits in a mouse model of Alzheimer's disease. *Translational psychiatry*, 15(1), 371.

Sun W, et al. (2024) Heterosynaptic plasticity of the visuo-auditory projection requires cholecystokinin released from entorhinal cortex afferents. *eLife*, 13.

Peng B, et al. (2024) Cross-modal enhancement of defensive behavior via parabigemino-collicular projections. *Current biology : CB*, 34(16), 3616.

Spoleti E, et al. (2024) Dopamine neuron degeneration in the Ventral Tegmental Area causes hippocampal hyperexcitability in experimental Alzheimer's Disease. *Molecular*

psychiatry.

Carmona LM, et al. (2024) Topographical and cell type-specific connectivity of rostral and caudal forelimb corticospinal neuron populations. *Cell reports*, 43(4), 113993.

Wei J, et al. (2024) A distributed auditory network mediated by pontine central gray underlies ultra-fast awakening in response to alerting sounds. *Current biology : CB*, 34(20), 4597.

Rotterman TM, et al. (2024) Modulation of central synapse remodeling after remote peripheral injuries by the CCL2-CCR2 axis and microglia. *Cell reports*, 43(2), 113776.

Salinas-Hernández XI, et al. (2023) Functional architecture of dopamine neurons driving fear extinction learning. *Neuron*, 111(23), 3854.

Xiao C, et al. (2023) Glutamatergic and GABAergic neurons in pontine central gray mediate opposing valence-specific behaviors through a global network. *Neuron*, 111(9), 1486.

Wang H, et al. (2023) Group I metabotropic glutamate receptor-triggered temporally patterned action potential-dependent spontaneous synaptic transmission in mouse MNTB neurons. *Hearing research*, 435, 108822.

Yu X, et al. (2023) Peripheral Fragile X messenger ribonucleoprotein is required for the timely closure of a critical period for neuronal susceptibility in the ventral cochlear nucleus. *Frontiers in cellular neuroscience*, 17, 1186630.

Lu Y, et al. (2023) Rapid, Activity-Dependent Intrinsic Plasticity in the Developing Zebra Finch Auditory Cortex. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 43(41), 6872.

Sun W, et al. (2022) The anterior cingulate cortex directly enhances auditory cortical responses in air-puffing-facilitated flight behavior. *Cell reports*, 38(10), 110506.