

PGP 9.5 ANTIBODIES

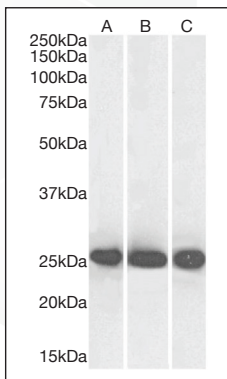
A Key Neuronal and Neuroendocrine Marker

Protein Gene Product (PGP) 9.5 is an abundant cytoplasmic neuron and neuroendocrine cell-specific protein. PGP 9.5 appears to belong to a family of ubiquitin-carboxy terminal hydrolase isoenzymes, but while it shows activity towards synthetic ubiquitin esters, the *in vivo* substrate(s) remain unknown. In recent years, PGP 9.5 has been established as a marker for neurons and cells of the diffuse neuroendocrine system (DNES).

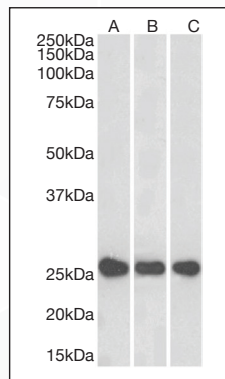


Applications of PGP 9.5 Antibodies

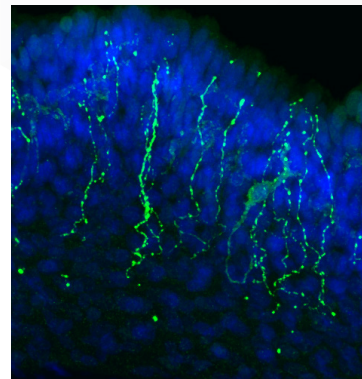
Antibodies against this protein stain neuronal cell bodies and axons in the central and peripheral nervous systems, small nerve fibers in nerve tissue, and neuroendocrine cells in the pituitary, thyroid, pancreas, and other DNES-related tumors. PGP 9.5 antibodies are also useful in neuropathology, experimental studies of peripheral tissue innervation, and research on DNES development and pathology. It is emphasized that antibodies to PGP are particularly suitable for detecting small nerve fibers in peripheral tissues and can help aid in the diagnosis of conditions such as small fiber neuropathy.



CL7755AP
(Anti-Human PGP 9.5) staining (0.1 µg/ml) of human cerebellum (A), mouse brain (B) and rat brain (C) lysates (35µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



CL7756AP
(Anti-Human PGP 9.5) staining (0.01 µg/ml) of human cerebellum (A), mouse brain (B) and rat brain (C) lysates (35µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



CL7756AP (Anti-PGP 9.5) staining (0.1 µg/ml) of a rat paw tissue section. The tissue was frozen in M1 embedding matrix and cut on a cryostat to 12 µm. It was fixed in a 0.1 M solution of PBS containing 0.2% (w/v) paraformaldehyde and 0.75% (w/v) picric acid. Intraepithelial nerve staining of PGP 9.5 is observed (green); tissue was counterstained with DAPI (blue). Image provided by Michael Anderson from Oklahoma State University, Center for Health Sciences. PhD student.

Specificity	Format	Clone	Isotype	Species Reactivity	Applications	Size	Cat. #
PGP 9.5 (UCLH1) (199)	Affinity Purified	Polyclonal	Rabbit IgG	Human, Mouse, Rat	WB, E, P	100 µg	CL7755AP
					WB, E, P	20 µg	CL7755AP-S
PGP 9.5 (UCLH1) (184)	Affinity Purified	Polyclonal	Rabbit IgG	Human, Mouse, Rat	WB, E, P, C	100 µg	CL7756AP
					WB, E, P, C	50 µg	CL7756AP-50
					WB, E, P, C	20 µg	CL7756AP-S

Legend for Applications: C = Cryostat Sections E = ELISA P = Paraffin-Embedded Sections WB = Western Blotting

Enhance your Research
with our Premium
PGP 9.5 antibodies



ORDER NOW!
Contact us now at
www.cedarlanelabs.com
sales@cedarlanelabs.com
1 (800) 268 5058

Trusted Antibodies for Breakthrough Research

Selected References for Anti-PGP 9.5 (CL7756AP):

1. Velasquez Flores M, *et al.* (2018) **Succinate decreases bladder function in a rat model associated with metabolic syndrome.** *NeuroUrol Urodyn.* 37(5):1549-1558.
2. Bartesaghi L, *et al.* (2019) **PRDM12 Is Required for Initiation of the Nociceptive Neuron Lineage during Neurogenesis.** *Cell Rep.* 26(13):3484-3492.e4.
3. Lee S, *et al.* (2020) **Long-term histological analysis of innervation and macrophage infiltration in a mouse model of intervertebral disc injury-induced low back pain.** *J Orthop Res.* 38(6):1238-1247.
4. Nagy N, *et al.* (2020) **RET overactivation leads to concurrent Hirschsprung disease and intestinal ganglioneuromas.** *Development.* 147(21):dev190900.
5. Bosanac T, *et al.* (2021) **Pharmacological SARM1 inhibition protects axon structure and function in paclitaxel-induced peripheral neuropathy.** *Brain.* 144(10):3226-3238.
6. Muñoz-Islas E, *et al.* (2021) **Effect of Experimental Gestational Diabetes Mellitus on Mechanical Sensitivity, Capsaicin-Induced Pain Behaviors and Hind Paw Glabrous Skin Innervation of Male and Female Mouse Offspring.** *J Pain Res.* 14:1573-1585.
7. Castañeda-Corral G, *et al.* (2021) **Characterization of Mechanical Allodynia and Skin Innervation in a Mouse Model of Type-2 Diabetes Induced by Cafeteria-Style Diet and Low-Doses of Streptozotocin.** *Front Pharmacol.* 11:628438.
8. Cui L, *et al.* (2022) **Glutamate in primary afferents is required for itch transmission.** *Neuron.* 110(5):809-823.e5.
9. Cottilli P, *et al.* (2022) **Effects of Sigma-1 Receptor Ligands on Peripheral Nerve Regeneration.** *Cells.* 11(7):1083.
10. Pannunzio B, *et al.* (2022) **CD200R1 Contributes to Successful Functional Reinnervation after a Sciatic Nerve Injury.** *Cells.* 11(11):1786.
11. Palomés-Borrajo G, *et al.* (2022) **BET protein inhibition in macrophages enhances dorsal root ganglion neurite outgrowth in female mice.** *J Neurosci Res.* 100(6):1331-1346.
12. Kume M, *et al.* (2023) **Protease-Activated Receptor 2 (PAR2) Expressed in Sensory Neurons Contributes to Signs of Pain and Neuropathy in Paclitaxel Treated Mice.** *J Pain.* 24(11):1980-1993.
13. Krock E, *et al.* (2023) **Fibromyalgia patients with elevated levels of anti-satellite glia cell immunoglobulin G antibodies present with more severe symptoms.** *Pain.* 164(8):1828-1840.
14. Dos Santos NL, *et al.* (2023) **Age and sex drive differential behavioral and neuroimmune phenotypes during postoperative pain.** *Neurobiol Aging.* 123:129-144.
15. Muñoz-Islas E, *et al.* (2023) **Long-term effects of streptozotocin-induced gestational diabetes mellitus on mechanical sensitivity and intraepidermal nerve fibers in female and male mice offspring.** *Neurosci Lett.* 812:137402.
16. Jimenez-Andrade JM, *et al.* (2023) **Evaluation of pain related behaviors and disease related outcomes in an immunocompetent mouse model of prostate cancer induced bone pain.** *J Bone Oncol.* 43:100510.
17. Thai J, *et al.* (2024) **Using tissue clearing and light sheet fluorescence microscopy for the three-dimensional analysis of sensory and sympathetic nerve endings that innervate bone and dental tissue of mice.** *J Comp Neurol.* 532(1):e25582.

CEDARLANE® 

Part of TCP Analytical Group

 CANADA

4410 Paletta Ct Suite A - L7L 5R2
Burlington, Ontario, Canada
E-mail: general@cedarlanelabs.com
Toll Free: 1-800-268-5058
Ph: (289) 288-0001
Fax: (289) 288-0020

 USA

1210 Turrentine St, Burlington, North
Carolina - 27215, United States
E-mail: service@cedarlanelabs.com
Toll Free: 1-800-721-1644
Ph: (336) 513-5135
Fax: (336) 513-5138



@cedarlane