

Rat Myelin protein zero IgG antibody (MPZ-Ab-IgG) ELISA Kit



Catalog No: #EK11876

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Package Size: #EK11876-1 48T #EK11876-2 96T

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Description

Product Name	Rat Myelin protein zero IgG antibody (MPZ-Ab-IgG) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Rat (<i>Rattus norvegicus</i>)
Storage	<p>The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.</p> <p>The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).</p>

Application Details

Detect Range:0.312-20 ng/mL

Sensitivity:0.122 ng/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

Product Description

Detection Method:SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate MPZ-Ab-IgG in samples. An antibody specific for MPZ-Ab-IgG has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyMPZ-Ab-IgG present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for MPZ-Ab-IgG is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of MPZ-Ab-IgG bound in the initial step. The color development is stopped and the intensity of the color is measured.

Product Overview:Myelin protein-zero is the major structural protein of peripheral myelin.Hayasaka et al. (1993) stated that the MPZ gene contains 6 exons.You et al. (1991) found that the Mpz gene in the mouse, like that in the rat, contains 6 exons that span about 7 kb of genomic DNA.Myelin protein-zero is the major structural protein of peripheral myelin, accounting for more than 50% of the protein present in the sheath of peripheral nerves. Expression of the MPZ gene is restricted to Schwann cells; MPZ is not found in the CNS. An integral membrane glycoprotein of 28 kD, MPZ is thought to link adjacent lamellae and thereby stabilize the myelin assembly. The other 3 major components of myelin are myelin basic protein (MBP), myelin proteolipid protein (PLP1), and myelin-associated glycoprotein (MAG).

Note: This product is for in vitro research use only