

## PRODUCT DATA SHEET



Bioworld Technology, Inc.

### NMDA $\zeta$ 1 (F891) Antibody

Cat No.: BS3664

Host: Rabbit

Reactivity: Human, Mouse, Rat

#### BACKGROUND

Glutamate receptors mediate most excitatory neurotransmission in the brain and play an important role in neural plasticity, neural development and neurodegeneration. Ionotropic glutamate receptors are categorized into NMDA receptors and kainate/AMPA receptors, both of which contain glutamate-gated, cation-specific ion channels. Kainate/AMPA receptors are co-localized with NMDA receptors in many synapses and consist of seven structurally related subunits designated GluR-1 to -7. The kainate/AMPA receptors are primarily responsible for the fast excitatory neurotransmission by glutamate, whereas the NMDA receptors exhibit slow kinetics of Ca<sup>2+</sup> ions and a high permeability for Ca<sup>2+</sup> ions. The NMDA receptors consist of five subunits:  $\epsilon$  1, 2, 3, 4 and one  $\zeta$  subunit. The  $\zeta$  subunit is expressed throughout the brainstem whereas the four  $\epsilon$  subunits display limited distribution.

#### PRODUCT

1 mg/ml in Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.2.

#### PURIFICATION & PURITY

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

#### APPLICATIONS

WB: 1:500 ~ 1:1000

IHC: 1:50 ~ 1:200 (Recommended Dilutions)

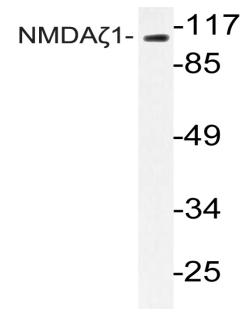
#### STORAGE & STABILITY

Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze-thaw cycles.

#### SPECIFICITY

NMDA $\zeta$ 1 (F891) antibody detects endogenous levels of NMDA $\zeta$ 1 protein.

#### DATA



Western blot (WB) analyzes of NMDA $\zeta$ 1 (F891) antibody in extracts from Jurkat cells.



Immunohistochemistry (IHC) analyzes of NMDA $\zeta$ 1 (F891) antibody in paraffin-embedded human breast carcinoma tissue.

#### RESEARCH USE

For research use only, not for use in diagnostic procedures.

Bioworld Technology, Inc.

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