

## *Anti-GluN2D (GluRε4, NR2D)*

*(NMDA-type glutamate receptor subunit 2D)*

### Product Information:

1) Catalog #:	MSFR107530
Item Name:	GluN2D (NR2D) pAb (GP) 20ug
Size :	20μg
Species :	guinea pig
Product Code :	GluN2D-GP-Af460
RRID :	AB_2925168
2) Catalog #:	MSFR107540
Item Name:	GluN2D (NR2D) pAb (GP) 50ug
Size :	50μg
Species :	guinea pig
Product Code :	GluN2D-GP-Af460
RRID :	AB_2925168

**Formulation:** Dissolved in PBS with 0.1% NaN<sub>3</sub>.

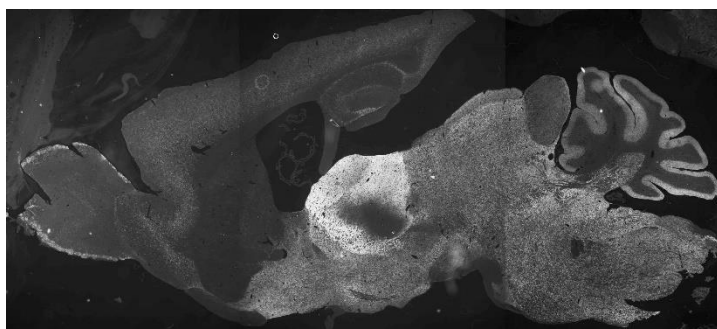
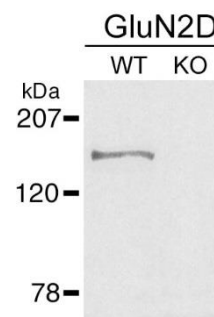
**Storage:** Store at 4 °C. Upon reconstitution, the antibody can be stored at 4 °C. Reconstituted antibody can be also aliquoted and stored at -20 °C for long-term storage. Avoid repeated freeze-thawing. Non-hazardous. No MSDS required.

**Species:** guinea pig, polyclonal

**Antigen:** mouse GluN2D, 1221-1300aa (D12822)

**Specificity:** Immunoblot detects a single protein band at 140 kDa in wild type brain, but not GluN2D-KO brain.

**Applications:** In general, affinity-purified antibody is used at around 1 microgram/ml for immunoblot and immunohistochemistry. The most appropriate concentration should be determined by users, because it depends on contents in given cells, tissues and organs.



**Research Use:** For research use only, not for use in diagnostic procedures.

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**Remarks:** For immunohistochemistry for neuronal iGluRs, users should adopt postembedding immunogold for electron microscopic detection and protease predigestion for light microscopic detection (see the below reference). The image of GluN2D labeling in the adult mouse brain was obtained by immunoperoxidase using the TSA (tyramide signal amplification) kit.

**Reference:**

Wu Y, Kawakami R, Fukaya M, Sakimura K, Mishina M, Watanabe M, Ito I, Shigemoto R: Target-cell-specific left-right asymmetry of NMDA receptor content in Schaffer collateral synapses in is an element of 1/NR2A knock-out mice. **J. Neurosci.** 25:9213-9226, 2005.

Yamasaki M, Okada R, Takasaki C, Toki S, Fukaya M, Natsume R, Sakimura K, Mishina M, Shirakawa T, Watanabe M: Opposing role of NMDA receptor GluN2B and GluN2D in somatosensory development and maturation. **J Neurosci**, 34:11534-11548, 2014.

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