Product Datasheet
PSD-95 Antibody (6G6-1C9)
NB300-556

Unit Size: 100 uL
Store at -20C. Avoid freeze-thaw cycles.

Reviews: 1  Publications: 16

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## Product Information

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit Size</td>
<td>100 uL</td>
</tr>
<tr>
<td>Concentration</td>
<td>3.3 mg/ml</td>
</tr>
<tr>
<td>Storage</td>
<td>Store at -20°C. Avoid freeze-thaw cycles.</td>
</tr>
<tr>
<td>Clonality</td>
<td>Monoclonal</td>
</tr>
<tr>
<td>Clone</td>
<td>6G6-1C9</td>
</tr>
<tr>
<td>Preservative</td>
<td>0.05% Sodium Azide</td>
</tr>
<tr>
<td>Isotype</td>
<td>IgG2a</td>
</tr>
<tr>
<td>Purity</td>
<td>Protein A purified</td>
</tr>
<tr>
<td>Buffer</td>
<td>PBS</td>
</tr>
</tbody>
</table>

## Product Description

**Host**
- Mouse

**Gene ID**
- 1742

**Gene Symbol**
- DLG4

**Species**
- Human, Mouse, Rat, Invertebrate, Primate

**Reactivity Notes**
- Invertebrate reactivity reported in scientific literature (PMID: 18182049).
- Primate reactivity reported in scientific literature (PMID: 20519524).
- Please note that this antibody is reactive to Mouse and derived from the same host, Mouse. Additional Mouse on Mouse blocking steps may be required for IHC and ICC experiments.
- Please contact Technical Support for more information.

**Marker**
- post-Synaptic Marker

**Specificity/Sensitivity**
- Detects Post Synaptic Density 95 kDa (PSD-95) from rat tissues.

**Immunogen**
- Purified recombinant rat PSD-95.

## Product Application Details

**Applications**
- Western Blot, Chromatin Immunoprecipitation, Flow Cytometry, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, Immunoprecipitation, Block/Neutralize, Immunocytochemistry

**Recommended Dilutions**

**Application Notes**
- WB: Detects an approx. 95 kDa protein and a slightly larger band in rat brain extracts. Flow usage was reported in scientific literature (PMID: 19187438). IHC usage was reported in scientific literature (PMID: 21289286). IHC-Fr usage was reported in scientific literature (PMID: 24875483).
Western Blot: PSD-95 Antibody (6G6-1C9) [NB300-556] - Analysis of 25 ug of mouse brain (lane 1) and rat brain (lane 2) cell lysates.

Immunocytochemistry: PSD-95 Antibody (6G6-1C9) [NB300-556] - Mixed 3 week old rat cortical cultures (21 DIV) were labelled with anti-PSD95 (1:650) and visualised with anti-mouse Alexa647 (1:2000). The antibody labels small punctae along neuronal processes as expected. This image was submitted via customer Review.

Flow Cytometry: PSD-95 Antibody (6G6-1C9) [NB300-556] - An intracellular stain was performed on HeLa cells with PSD-95 Antibody (6G6-1C9) NB300-556AF488 (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 10 ug/mL for 30 minutes at room temperature. Both antibodies were conjugated to Alexa Fluor 488.

Immunocytochemistry/Immunofluorescence: PSD-95 Antibody (6G6-1C9) [NB300-556] - Analysis of PSD95 using PSD95 Monoclonal antibody (6G6-1C9) shows staining in HeLa cells. PSD95 staining (green), F-Actin staining with Phalloidin (red) and nuclei with DAPI (blue) is shown. Cells were grown on chamber slides and fixed with formaldehyde prior to staining. Cells were probed without (control) or with or an antibody recognizing PSD95 at a dilution of 1:100-1:200 over night at 4C, washed with PBS and incubated with a DyLight-488 conjugated.
Immunocytochemistry/Immunofluorescence: PSD-95 Antibody (6G6-1C9) [NB300-556] - Analysis of PSD95 using PSD95 Monoclonal antibody (6G6-1C9) shows staining in U251 glioma cells. PSD95 staining (green), F-Actin staining with Phalloidin (red) and nuclei with DAPI (blue) is shown. Cells were grown on chamber slides and fixed with formaldehyde prior to staining. Cells were probed without (control) or with or an antibody recognizing PSD95 at a dilution of 1:100-1:200 over night at 4C, washed with PBS and incubated with a DyLight-488 conjugated.

Immunocytochemistry/Immunofluorescence: PSD-95 Antibody (6G6-1C9) [NB300-556] - Analysis of PSD95 using PSD95 Monoclonal antibody (6G6-1C9) shows staining in C6 glioma cells. PSD95 staining (green), F-Actin staining with Phalloidin (red) and nuclei with DAPI (blue) is shown. Cells were grown on chamber slides and fixed with formaldehyde prior to staining. Cells were probed without (control) or with or an antibody recognizing PSD95 at a dilution of 1:100-1:200 over night at 4C, washed with PBS and incubated with a DyLight-488 conjugated.

Immunocytochemistry/Immunofluorescence: PSD-95 Antibody (6G6-1C9) [NB300-556] - Analysis of Post Synaptic Density 95kD protein (PSD95, green) in cultured primary cortical neurons. Primary cortical neurons are isolated and cultured using the Primary Neuron Isolation Kit. At day 28, neurons were fixed with 4% paraformaldehyde, permeabilized with 0.1% triton X-100 in HBSS for 10 minutes at room temperature, and blocked with 3% BSA in PBS for 30 minutes at room temperature. Cells were probed with a PSD95 monoclonal antibody at a dilution of 1:500 for 2 hours at room temperature or overnight at 4C, washed with HBSS, and incubated with DyLight 488 goat anti-mouse IgG secondary antibody at dilution of 1:500 for 1 hour at room temperature.

Flow Cytometry: PSD-95 Antibody (6G6-1C9) [NB300-556] - Analysis of PSD95 in Neuro-2a cells compared to an isotype control (blue).
Flow Cytometry: PSD-95 Antibody (6G6-1C9) [NB300-556] - Analysis of PSD95 in SH-SY5Y cells compared to an isotype control (blue).

Flow Cytometry: PSD-95 Antibody (6G6-1C9) [NB300-556] - Analysis of PSD95 in U87-MG cells compared to an isotype control (blue).
# Publications


Details:
Citation using the Alexa Fluor 488 version of this antibody.

Marcolin ML, Baumbach JL, Hodges TE, McCormick CM The effects of social instability stress and subsequent ethanol consumption in adolescence on brain and behavioural development in male rats Alcohol Aug 26 2019 12:00AM [PMID: 31465790] (WB, Rat)

Hodges TE, Louth EL, Bailey CDC, McCormick CM. Adolescent social instability stress alters markers of synaptic plasticity and dendritic structure in the medial amygdala and lateral septum in male rats. Brain Struct Funct. Nov 23 2018 12:00AM [PMID: 30467598] (Rat)

Parker SS, Moutal A, Cai S et al. High Fidelity Cryopreservation and Recovery of Primary Rodent Cortical Neurons. eNeuro Sep 27 2018 12:00AM [PMID: 30263951] (ICC/IF, Mouse)

Simone JJ, Baumbach JL, McCormick CM. Sex-specific effects of CB1 receptor antagonism and stress in adolescence on anxiety, corticosterone concentrations, and contextual fear in adulthood in rats Int. J. Dev. Neurosci. Oct 1 2018 12:00AM [PMID: 30063953] (WB, Rat)

Simone JJ, Baumbach JL, McCormick CM. Effects of CB1 receptor antagonism and stress exposures in adolescence on socioemotional behaviours, neuroendocrine stress responses, and expression of relevant proteins in the hippocampus and prefrontal cortex in rats Neuropharmacology. 2017 Oct 29 [PMID: 29092785] (WB, Rat)


More publications at [http://www.novusbio.com/NB300-556](http://www.novusbio.com/NB300-556)
Limitations
This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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