

MACS[®] Neural Tissue Dissociation Kits —

gentle and efficient dissociation of neural tissues

MACS® Neural Tissue Dissociation Kit Gentle and efficient dissociation

The Neural Tissue Dissociation Kits, which can be used in combination with the gentleMACS[™] Dissociator, have been developed for the gentle and efficient generation of singlecell suspensions from neural tissues: In less than one hour, the gentle two-step enzymatic dissociation procedure efficiently yields high numbers of viable cells. Neural tissue from embryonic, postnatal, and adult tissue sections or whole-brain preparations can be processed. The dissociation kit comes in two formats, one papain-based Neural Tissue Dissociation Kit (P) and the other trypsin-based Neural Tissue Dissociation Kit (T). The cells are then ready for downstream applications.

| | Antigen comp Antigen | atibility Species | Cell type |
|---|-------------------------|-----------------------------|---|
| Neural Tissue Dissociation Kit (P) | Prominin-1 | Mouse | Neural stem and progenitor cells |
| | A2B5 | Human, mouse, rat | Glial-restricted precursors |
| | O4 ¹ | Human, mouse, rat | Immature oligodendrocytes, type-2 astrocytes |
| | CD11b | Human, mouse | Microglia |
| | CD81 ¹ | Mouse, rat | Microglia, macrophages, endothelial cells, glia |
| | CD311 | Mouse | Endothelial cells |
| | | | |
| Neural Tissue | Prominin-1 ² | Mouse | Neural stem and progenitor cells |
| Dissociation Kit (T) | PSA-NCAM | Human, mouse, rat | Neuronal-restricted precursors, oligodendrocyte progenitors |
| | CD24 | Mouse | Neuronal precursors, ependymal cells |
| | A2B5 ² | Human, mouse, rat | Glial-restricted precursors |
| | CD11b | Human, mouse | Microglia |
| | CD271 (LNGFR) | Human | Schwann cells, motor neurons |
| | CD105 | Mouse | Endothelial cells |
| | Ter-119 | Mouse | Erythrocytes |

1 Slight epitope sensitivity with the use of the papain-based kit; therefore, a further dilution of the enzyme mix is recommended.

2 Slight epitope sensitivity with use of the trypsin-based kit; therefore, use of the papainbased kit recommended.

Epitope sensitivities have been tested for antibodies available from Miltenyi Biotec.



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Single-cell suspensions within an hour

- Two-step enzymatic dissociation procedure
- Available in papain or trypsin format



| Products | Order no. |
|------------------------------------|-------------|
| Neural Tissue Dissociation Kit (P) | 130-092-628 |
| Neural Tissue Dissociation Kit (T) | 130-093-231 |

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