Miltenyi Biotec

Gentle adult brain dissociation

Viable, functional cells for reliable experimental results

Careful tissue dissociation and preparation of single-cell suspensions with high cell viability and minimal cell debris is the premise for reliable cell separation, culture, and analysis. Expand your research from neonatal rodent brain to adult brain in a fast and easy way now. Start smart with our adult brain dissociation workflow based on the Adult Brain Dissociation Kit and gentleMACS™ Octo Dissociator with Heaters.

- **Get pure neural cells from adult brain tissue in just two hours**
- **Save time with fully automated and standardized processes**
- **Benefit from functional cells ready for cell separation and downstream analysis**

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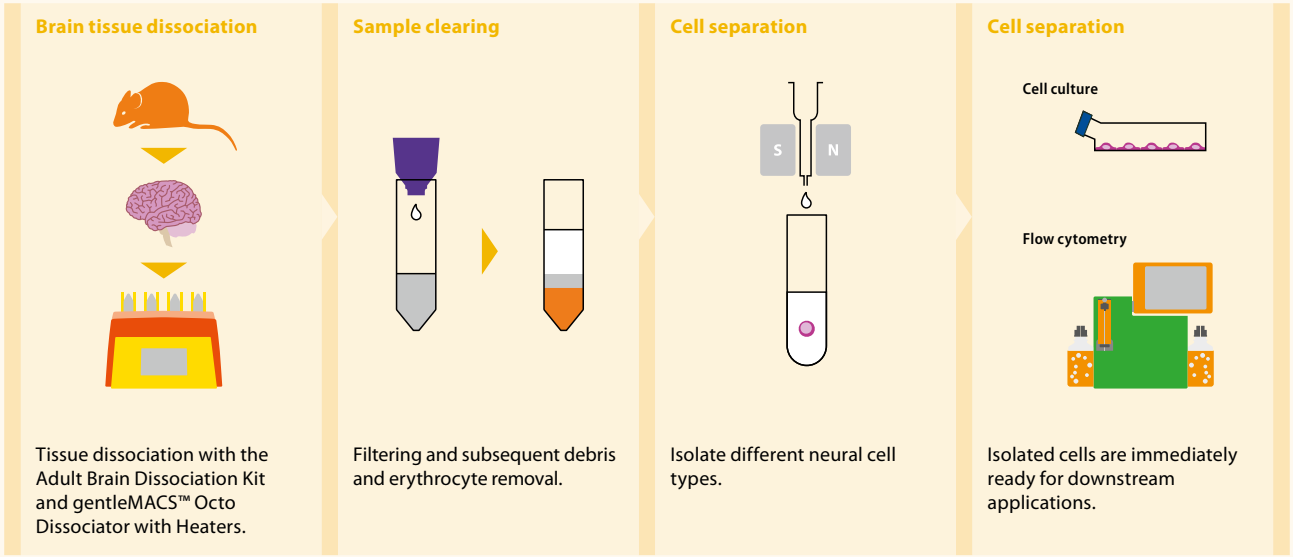

Figure 1: The fast and easy workflow enables researchers to dissociate brain tissue in just two hours.

Start smart with the adult brain dissociation workflow

Getting high-quality adult neural cells is an important step on the way to exploring the neural system. However, the dissociation of adult brain is very demanding and requires sophisticated mechanical and enzymatic treatment to successfully disaggregate the tightly connected neural cells. The gentleMACS™ Octo Dissociator with Heaters (Order No. 130-096-427) in combination with the Adult Brain Dissociation Kit, mouse and rat (Order No. 130-107-677), provides an easy solution to standardize the dissociation of adult rodent brains (P>7) and obtain the viable neural cells you need.

Gentle brain dissociation saves your nerves

The Adult Brain Dissociation Kit has been developed for the gentle and efficient generation of single-cell suspensions from adult brain considering the special needs of sensitive brain cells from adult mice or rats during dissociation. The optimized gentleMACS Protocol ensures gentle mechanical and enzymatic dissociation preserving cell integrity and surface epitopes. This way, you will receive a high yield of viable cells ready for cell separation and downstream analysis after removal of debris and erythrocytes (fig. 1).

Get pure cells free of debris and erythrocytes

After the dissociation, the Debris Removal Solution and the Red Blood Cell Removal Solution included in the kit are used for the elimination of debris and erythrocytes, leading to large numbers of clean and functional neural cells (fig. 2).

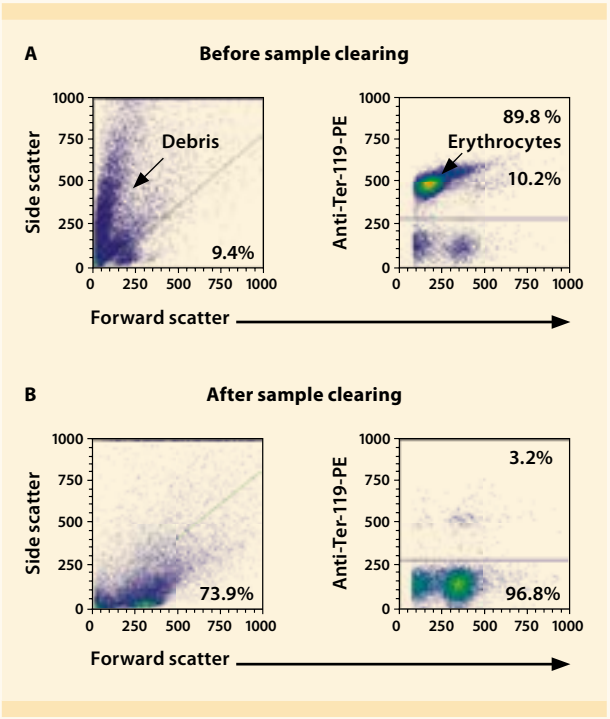

Figure 2: The cell suspension from adult brain contains a significant amount of cell debris and erythrocytes (A), which hampers subsequent cell isolation, cultivation, and analysis. The new Adult Brain Dissociation Kit (ABDK) optimizes the tissue dissociation process, and after sample clearing yields living cells with much less cell debris and erythrocytes (B).

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