

TECHNICAL DATA SHEET

CyFlow™ Drebrin Purified Anti-Hu; Clone DBN-N-03

REF AP230517

For Research Use Only.
Not for use in diagnostic or therapeutic procedures.

Specifications

Antigen	Drebrin
Alternative Names	—
Clone	DBN-N-03
Clonality	monoclonal
Format	Purified
Host / Isotype	Mouse / IgG2b
Species Reactivity	Human
Negative Species Reactivity	—
Quantity [Concentration]	0.1 mg [1 mg/ml]
Immunogen	Bacterially expressed N-terminal fragment of recombinant human drebrin (aa 1-326)

Specificity

The mouse monoclonal antibody DBN-N-03 recognizes drebrin, an approximately 100-125 kDa regulator of actin cytoskeleton.

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Application

Based on published sources, this antibody is suitable for the following applications:

- Flow cytometry
- Western blot

Storage Buffer

The reagent is provided in Tris buffered saline (TBS) solution, pH ≈8.0, containing 0.1% (w/v) sodium azide.

Storage and Stability

Storage	Avoid prolonged exposure to light. Store in the dark at 2-8°C. Do not freeze.
Stability	Do not use after expiration date stamped on vial label.

Background Information

Drebrin is an actin-binding protein, which is expressed mainly in neurons and plays important role in their morphogenesis. The highest level of its expression is in developing brain. Both in neurons and non-neuronal cells drebrin acts as a key regulator of actin cytoskeleton remodelling, affecting especially intercellular junctions, such as dendritic spines of neurons or the immune synapses of T cells. Decrease of drebrin amount in the brain seems to be associated with Alzheimer's disease and Down syndrome, and in case of B-cell precursor acute lymphoblastic leukemia (BCP-ALL) lower drebrin expression correlates with higher risk of relapse.

References

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- Sasaki Y, Hayashi K, Shirao T, Ishikawa R, Kohama K: Inhibition by drebrin of the actin-bundling activity of brain fascin, a protein localized in filopodia of growth cones. J Neurochem. 1996 Mar; 66(3):980-8. < PMID: 8769857 >
- Hayashi K, Ishikawa R, Ye LH, He XL, Takata K, Kohama K, Shirao T: Modulatory role of drebrin on the cytoskeleton within dendritic spines in the rat cerebral cortex. J Neurosci. 1996 Nov 15; 16(22):7161-70. < PMID: 8929425 >

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- Vaskova M, Kovac M, Volna P, Angelisova P, Mejstrikova E, Zuna J, Brdicka T, Hrusak O: High expression of cytoskeletal protein drebrin in TEL/AML1pos B-cell precursor acute lymphoblastic leukemia identified by a novel monoclonal antibody. Leuk Res. 2011 Aug; 35(8):1111-3. < PMID: 21497902 >

The Safety Data Sheet for this product is available at www.sysmex-partec.com/services.

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