

Datasheet for ABIN1558085
anti-DBN1 antibody (AA 1-326) (PE)

3 Images

1 Publication

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Overview

Quantity:	100 tests
Target:	DBN1
Binding Specificity:	AA 1-326
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This DBN1 antibody is conjugated to PE
Application:	Flow Cytometry (FACS)

Product Details

Immunogen:	Bacterially expressed N-terminal fragment of recombinant human drebrin (aa 1-326)
Clone:	DBN-N-03
Isotype:	IgG2b
Specificity:	The mouse monoclonal antibody DBN-N-03 recognizes drebrin, an approximately 100-125 kDa intracellular regulator of actin cytoskeleton.
Cross-Reactivity (Details):	Human
Purification:	Purified antibody is conjugated with R-phycoerythrin (PE) under optimum conditions. Unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

Target Details

Target:	DBN1
Alternative Name:	Drebrin (DBN1 Products)
Background:	Drebrin 1,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.,DBN, D0S117E
Gene ID:	1627
UniProt:	Q16643
Pathways:	Maintenance of Protein Location

Application Details

Application Notes:	Flow cytometry: The reagent is designed for analysis of human blood cells using 4 µL reagent / 100 µL of whole blood or 10 ⁶ cells in a suspension. The content of a vial (0.4 ml) is sufficient for 100 tests. Intracellular staining.
Comment:	The purified antibody is conjugated with R-Phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.
Restrictions:	For Research Use only

Handling

Reconstitution:	No reconstitution is necessary.
Buffer:	Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Do not freeze. Avoid prolonged exposure to light.

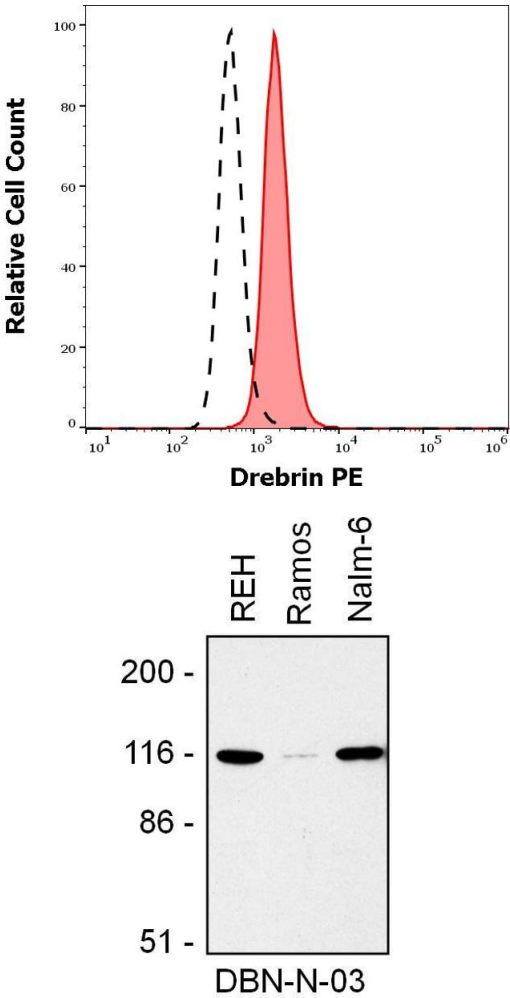
Handling

Storage:	4 °C
Storage Comment:	Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.

Publications

Product cited in:	Vaskova, Kovac, Volna, Angelisova, Mejstrikova, Zuna, Brdicka, Hrusak: "High expression of cytoskeletal protein drebrin in TEL/AML1pos B-cell precursor acute lymphoblastic leukemia identified by a novel monoclonal antibody." in: Leukemia research , Vol. 35, Issue 8, pp. 1111-3, (2011) (PubMed).
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Images

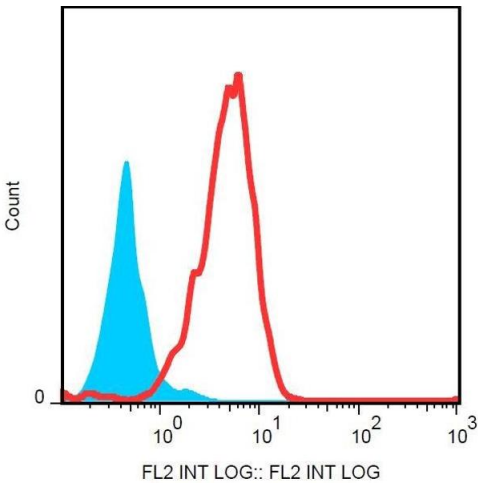


Flow Cytometry

Image 1. Separation of REH cells stained using anti-human Drebrin (DBN-N-03) PE antibody (10 μ L reagent per million cells in 100 μ L of cell suspension, red-filled) from REH cells stained using mouse IgG1 isotype control (MOPC-21) PE antibody (concentration in sample 5 μ g/mL, same as Drebrin PE concentration, black-dashed) in flow cytometry analysis (intracellular staining) of REH cell suspension.

Western Blotting

Image 2. Western blotting analysis of drebrin expression in REH, Ramos, and Nalm-6 cell lysate using mouse monoclonal antibody DBN-N-03 .



Flow Cytometry

Image 3. Intracellular staining of drebrin in NALM-6 cells using anti-drebrin (DBN-N-03) PE.