ARG65435
anti-Drebrin antibody [DBN-N-03]

Package: 50 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [DBN-N-03] recognizes Drebrin
Tested Reactivity	Hu
Tested Application	CyTOF®-candidate, FACS, WB
Specificity	The clone DBN-N-03 recognizes drebrin, an approximately 100-125 kDa regulator of actin cytoskeleton.
Host	Mouse
Clonality	Monoclonal
Clone	DBN-N-03
Isotype	IgG2b
Target Name	Drebrin
Species	Human
Immunogen	Bacterially expressed N-terminal fragment of recombinant human drebrin (aa 1-326)
Conjugation	Un-conjugated
Alternate Names	Developmentally-regulated brain protein; D0S117E; Drebrin

Application Instructions

Application table

Application	Dilution
CyTOF®-candidate	Assay-dependent
FACS	1 - 4 µg/ml
WB	Assay-dependent

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Positive Control: WB: REH, Nalm-6 and HEK293.

Properties

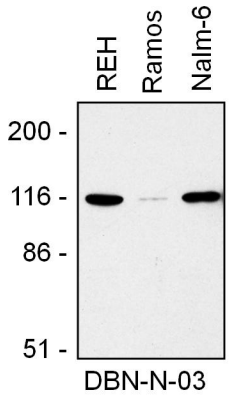
Form	Liquid
Purification	Purified from hybridoma culture supernatant by protein A-affinity chromatography.
Purity	> 95% (by SDS-PAGE)
Buffer	TBS (pH 8.0) and 15 mM Sodium azide
Preservative	15 mM Sodium azide
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot

	and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

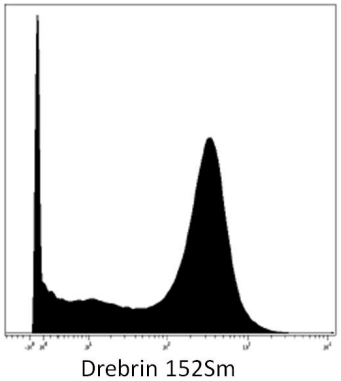
Database links	GeneID: 1627 Human Swiss-port # Q16643 Human
Gene Symbol	DBN1
Gene Full Name	drebrin 1
Background	Drebrin is an actin-binding protein, which is expressed mainly in neurons and plays important role in their morphogenesis. The highest level of its expression is in developing brain. Both 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.
Function	Drebrins might play some role in cell migration, extension of neuronal processes and plasticity of dendrites. Required for actin polymerization at immunological synapses (IS) and for CXCR4 recruitment to IS. [UniProt]
Research Area	Cancer antibody; Neuroscience antibody; Signaling Transduction antibody
Calculated Mw	71 kDa

Images



ARG65435 anti-Drebrin antibody [DBN-N-03] WB image

Western blot: 1. REH cell lysate 2. Ramos cell lysate 3. Nalm-6 cell lysate stained with ARG65435 anti-Drebrin antibody [DBN-N-03].



ARG65435 anti-Drebrin antibody [DBN-N-03] CyTOF image

CyTOF: Human brain tumor cells were stained with ARG65435 anti-Drebrin antibody [DBN-N-03] (152Sm). Singlet cells were gated for data analysis.