

36-2157: Anti-Drebrin 1 (DBN1) Monoclonal Antibody(Clone: DBN1/2880)

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| Clonality : | Monoclonal |
| Clone Name : | DBN1/2880 |
| Application : | IHC,WB |
| Reactivity : | Human |
| Gene : | DBN1 |
| Gene ID : | 1627 |
| Uniprot ID : | Q16643 |
| Alternative Name : | Developmentally regulated brain protein; Drebrin 1; Drebrin; Drebrin E; Drebrin E2; Drebrin1; DrebrinE |
| Isotype : | Mouse IgG1, kappa |
| Immunogen Information : | Recombinant fragment (aa 150-281) of human DBN1 protein (exact sequence is proprietary) |

Description

Drebrins (developmentally regulated brain proteins) are cytoplasmic proteins that bind F-actin in the brain and are involved in cell migration, extension of neuronal processes and plasticity of dendrites. There are three isoforms: two embryonic types (E1 and E2); and an adult type (A), generated by alternative RNA splicing from a single Drebrin gene. Drebrins are expressed mainly in brain neurons but are also found in skeletal muscle, heart, placenta, pancreas and kidney. Drebrin has been designated as a marker of the dendritic spine. Decreases in Drebrin levels in the brain have been associated with Alzheimer's disease and Down syndrome.

Product Info

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| Amount : | 20 µg / 100 µg |
| Content : | 200 µg/ml of Ab Purified from Bioreactor Concentrate. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml. |
| Storage condition : | Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. |

Application Note

Western Blot (1-2ug/ml); Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 min at RT),(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes);

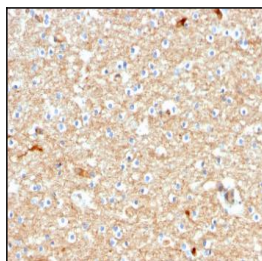


Fig. 1: Formalin-fixed, paraffin-embedded human Brain stained with Drebrin-1 Mouse Monoclonal Antibody (DBN1/2880).

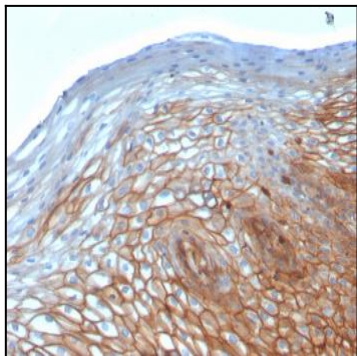


Fig. 2: Formalin-fixed, paraffin-embedded human Cervix stained with Drebrin-1 Mouse Monoclonal Antibody (DBN1/2880).

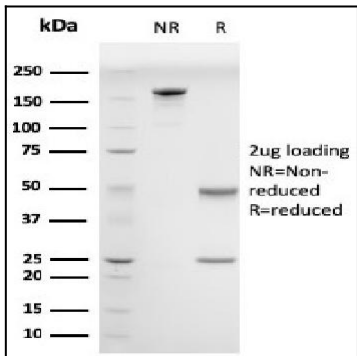


Fig. 3: SDS-PAGE Analysis Purified Drebrin-1 Mouse Monoclonal Antibody (DBN1/2880). Confirmation of Purity and Integrity of Antibody

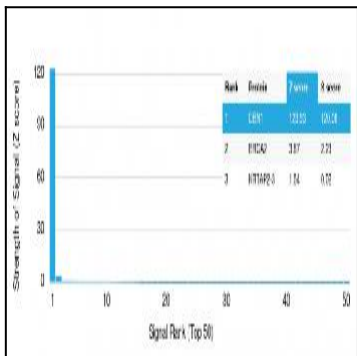


Fig. 4: Analysis of Protein Array containing more than 19,000 full-length human proteins using Drebrin-1 Mouse Monoclonal Antibody (DBN1/2880). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.