

36-2158: Anti-Drebrin 1 (DBN1) Monoclonal Antibody(Clone: DBN1/3393)

Clonality :	Monoclonal
Clone Name :	DBN1/3393
Application :	WB,IHC
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

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);

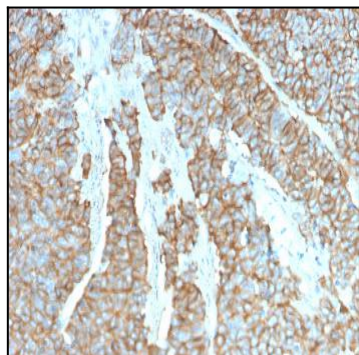


Fig. 1: Formalin-fixed, paraffin-embedded human Neuroendocrine Tumor stained with Drebrin-1 Mouse Monoclonal Antibody (DBN1/3393).

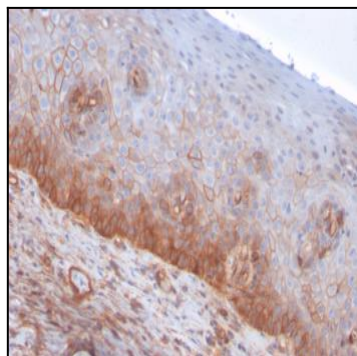


Fig. 2: Formalin-fixed, paraffin-embedded human Cervix stained with Drebrin-1 Mouse Monoclonal Antibody (DBN1/3393).

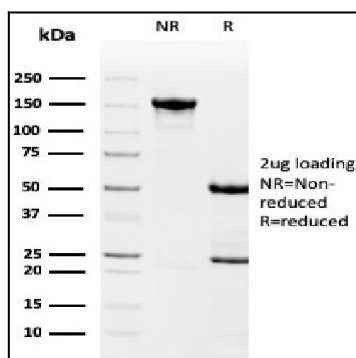


Fig. 3: SDS-PAGE Analysis Purified Drebrin-1 Mouse Monoclonal Antibody (DBN1/3393). Confirmation of Purity and Integrity of Antibody

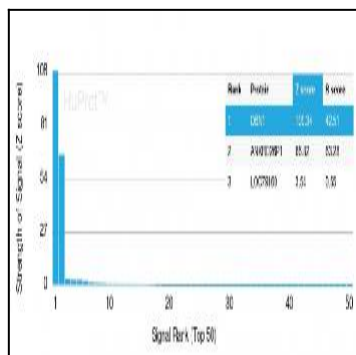


Fig. 4: Analysis of Protein Array containing more than 19,000 full-length human proteins using Drebrin-1 Mouse Monoclonal Antibody (DBN1/3393). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM 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 HuProtTM 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.