

## Drebrin 1 (DBN1) Antibody

Mouse Monoclonal Antibody [Clone DBN1/2880]

Catalog No	Format	Size
1627-MSM2-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
1627-MSM2-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
1627-MSM2-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

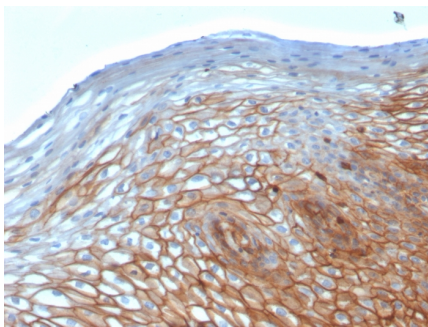
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes
Western Blot (WB)	2-4ug/ml	

### Product Details

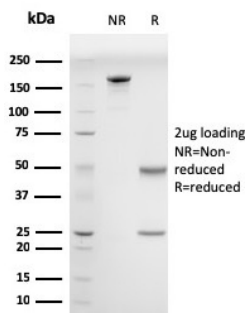
<b>Clone</b>	DBN1/2880
<b>Gene Name</b>	DBN1
<b>Immunogen</b>	Recombinant fragment (aa 150-281) of human DBN1 protein (exact sequence is proprietary)
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Isotype / Light Chain</b>	IgG1 / Kappa
<b>Mol. Weight of Antigen</b>	120kDa
<b>Cellular Localization</b>	Cell cortex, Cell junction, Cell projection, Cytoplasm, Dendrite, Growth cone
<b>Species Reactivity</b>	Human
<b>Positive Control</b>	kidney and pancreas., PC3 cells. Brain neurons. Also found in the heart, Placenta, Skeletal muscle

\*Optimal dilution for a specific application should be determined.

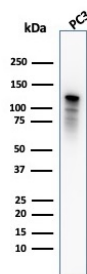
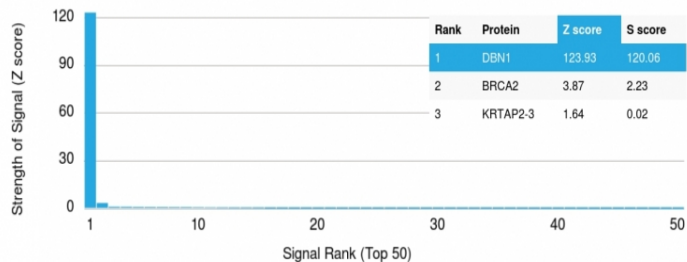
### Product Images for Drebrin 1 (DBN1) Antibody



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

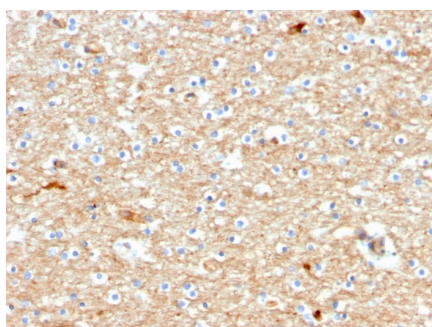


SDS-PAGE Analysis of Purified Drebrin-1 Mouse Monoclonal Antibody (DBN1/2880). Confirmation of Purity and Integrity of Antibody.



Western Blot Analysis of PC3 cell lysate using Drebrin-1 Mouse Monoclonal Antibody (DBN1/2880).

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 be 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.



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

### Specificity & Comments

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.

### Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis. There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

### Supplied As

200ug/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 and Stability

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. No MSDS required.

### Research Areas

Neuroscience, Signal Transduction