

## Product datasheet

### anti-Drebrin guinea pig polyclonal, serum

#### Short overview

<b>Cat. No.</b>	GP254
<b>Quantity</b>	100 µl

#### Product description

<b>Host</b>	Guinea pig
<b>Antibody Type</b>	Polyclonal
<b>Immunogen</b>	Synthetic human peptide (aa 254-272) coupled to KLH
<b>Formulation</b>	Contains 0.09% sodium azide
<b>UniprotID</b>	A1L5A7 (Bovine), Q16643 (Human), Q9QXS6 (Mouse), Q07266 (Rat)
<b>Synonym</b>	Drebrin, Developmentally-regulated brain protein, DBN1, D0S117E
<b>Note</b>	Centrifuge prior to opening
<b>Conjugate</b>	Unconjugated
<b>Purification</b>	Stabilized antiserum
<b>Storage</b>	Short term at 2-8°C; long term storage in aliquots at -20°C; avoid freeze/thaw cycles
<b>Intended use</b>	Research use only
<b>Application</b>	ICC/IF, IHC, IP, WB
<b>Reactivity</b>	Bovine, Human, Mouse, Rat

#### Applications

<b>Immunocytochemistry (ICC)</b>	Assay dependent
<b>Immunohistochemistry (IHC) - frozen</b>	1:100
<b>Immunohistochemistry (IHC) - paraffin</b>	1:100 (microwave treatment recommended)
<b>Immunoprecipitation (IP)</b>	Assay dependent
<b>Western Blot (WB)</b>	Assay dependent

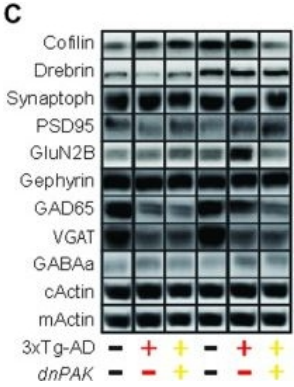
#### Background

The antiserum specifically reacts with drebrin, a widespread actin-associating protein of 70 kD (SDS-PAGE mobility shows Mr 120,000). Drebrin has originally been described only in neuronal cells, but has been recently found also in the actin-rich lamellipodia and filopodia of motile cells. It is enriched at junctional plaques, defining a specific microfilament anchorage system in polar epithelial cells. Positive staining was found in many tissues, including diverse epithelia and carcinoma (e.g. in epidermis basal cells are positive, whereas overlying cells are negative; also positive: regenerating epithelium during wound healing; basal cell carcinoma; skin melanoma), specific types of endothelia and smooth muscle; especially prominent in the mesangial cells of renal glomeruli and in the Sertoli cells of testis. Also positive: epithelia of hair follicles and eccrine sweat glands. Consistently negative were, however, hepatocytes and cross-striated muscle. Positive cultured cell lines: PLC, U333, HUVEC, HaCat, HeLa, MCF-7, SV-80, B1; B16 (mouse melanoma cells)

#### Product images



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[Bories, C., Arsenault, D., et al. Transgenic autoinhibition of p21-activated kinase exacerbates synaptic impairments and fronto-dependent behavioral deficits in an animal model of Alzheimer's disease. Aging \(Albany NY\). 2017-05-16.](#) Species/Reactant: Mus musculus (House mouse) Applications: Western Blotting Image collected and cropped by CiteAb from the following publication, provided under a CC-BY licence.

## References

Publication	Species	Application
<a href="#">Bories, C. et al. Transgenic autoinhibition of p21-activated kinase exacerbates synaptic impairments and fronto-dependent behavioral deficits in an animal model of Alzheimerâ€™s disease. Aging (Albany, NY). 9, 1386â€“1403 (2017).</a>	mouse	WB
<a href="#">Peitsch, W. K. et al. Drebrin, an Actin-Binding, Cell-Type Characteristic Protein: Induction and Localization in Epithelial Skin Tumors and Cultured Keratinocytes. J. Invest. Dermatol. 125, 761-774 (2005).</a>	human	WB,IP
<a href="#">Peitsch, W. K. Cell biological and biochemical characterization of drebrin complexes in mesangial cells and podocytes of renal glomeruli. J. Am. Soc. Nephrol. 14, 1452-1463 (2003).</a>	human,mouse,bovine	IHC (frozen),ICC-IF,IEM
<a href="#">Peitsch, W. K. et al. Drebrin particles: components in the ensemble of proteins regulating actin dynamics of lamellipodia and filopodia. Eur. J. Cell Biol. 80Peitsch, 567-579 (2001).</a>	human	WB,ICC-IF,IEM,IP