



## Rabbit antibody to gamma synuclein (114-127): whole serum

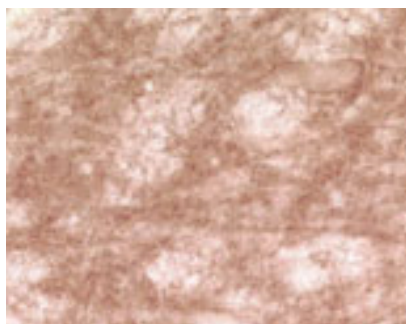
<b>Catalogue No.:</b>	R-058-100
<b>Description:</b>	<p><b>FUNCTION:</b> Plays a role in neurofilament network integrity. May be involved in modulating axonal architecture during development and in the adult. In vitro, increases the susceptibility of neurofilament-H to calcium-dependent proteases. May also function in modulating the keratin network in skin. Activates the MAPK and Elk-1 signal transduction pathway. <b>SUBUNIT:</b> May be a centrosome-associated protein. <b>SUBCELLULAR LOCATION:</b> Cytoplasm; perinuclear region. Centrosome. Spindle. Associated with centrosomes in several interphase cells. In mitotic cells, localized to the poles of the spindle. <b>TISSUE SPECIFICITY:</b> Highly expressed in brain, particularly in the substantia nigra. Also expressed in the corpus callosum, heart, skeletal muscle, ovary, testis, colon and spleen. Weak expression in pancreas, kidney and lung. <b>PTM:</b> Phosphorylated. Phosphorylation by GRK5 appears to occur on residues distinct from the residue phosphorylated by other kinases. <b>DISEASE:</b> Brain iron accumulation type 1 (NBIA1, also called Hallervorden-Spatz syndrome), a rare neuroaxonal dystrophy, is histologically characterized by axonal spheroids, iron deposition, Lewy body (LB)-like intraneuronal inclusions, glial inclusions and neurofibrillary tangles. SNCG is found in spheroids but not in inclusions. <b>SIMILARITY:</b> Belongs to the synuclein family.</p>
<b>Batch No.:</b>	See product label
<b>Unit size:</b>	100 uL
<b>Antigen:</b>	A synthetic peptide (EKEEVAEEAQSGGD) as part of human gamma synuclein protein (aa: 114-127) conjugated to diphtheria toxoid has been used as the immunogen.
<b>Other Names:</b>	Persyn; Breast cancer-specific gene 1 protein; Synoretin; BCSG1; PERSYN; PRSN; SNCG; SR;
<b>Accession:</b>	O76070 SYUG_HUMAN;
<b>Produced in:</b>	Rabbit
<b>Purity:</b>	Whole serum
<b>Applications:</b>	IHC, WB. A dilution of 1:500 to 1:1000 is recommended for both applications. Biosensis recommends optimal dilutions/concentrations should be determined by the end user.
<b>Specificity:</b>	Immunohistochemical/western blot analysis indicate a high level of specificity for this antiserum for gamma synuclein.
<b>Cross-reactivity:</b>	This antiserum is known to react with human and rat gamma synuclein.
<b>Form:</b>	Lyophilised
<b>Reconstitution:</b>	Reconstitute in 100 uL of sterile water. Centrifuge to remove any insoluble material.
<b>Storage:</b>	After reconstitution keep aliquots at -20C for a higher stability, and at 2-8C with an appropriate antibacterial agent. Glycerol (1:1) may be added for an additional stability. Avoid repetitive freeze/thaw cycles.
<b>Expiry Date:</b>	12 months after purchase
<b>References:</b>	<ol style="list-style-type: none"> <li>1. Lundvig, et al Brain Res Mol Brain Res 134, 3-17 (Mar 24, 2005).</li> <li>2. Bennett, Pharmacol Ther 105, 311-31 (Mar, 2005).</li> </ol>

FOR RESEARCH USE ONLY



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4. Martin, et al., Protein Pept Lett 11, 229-37 (Jun, 2004).
5. Doherty, et al., Acta Neuropathol (Berl) 107, 169-75 (Feb, 2004).
6. Goedert, Curr Opin Genet Dev 11, 343-51 (Jun, 2001).
7. Saito, et al., J Neurol Sci 177, 48-59 (Aug 1, 2000).
8. Lucking et al. Cell Mol Life Sci. 2000 Dec;57(13-14):1894-908.
9. Kahle, et al., Ann N Y Acad Sci 920, 33-41 (2000).
10. Clayton, et al., Trends Neurosci 21, 249-54 (Jun, 1998).



Immunohistochemical staining of gamma synuclein in rat brainstem using rabbit polyclonal to human gamma synuclein, catalogue number R-058-100.

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