

## Rabbit Anti-gamma Synuclein/Cy5 Conjugated antibody

SL0622R-Cy5

<b>Product Name</b>	Anti-gamma Synuclein/Cy5
<b>Chinese Name</b>	Cy5 标记的核突触蛋白- $\gamma$ 抗体
<b>Alias</b>	BCSG1; gamma-Synuclein; Breast cancer specific gene 1 protein; Breast cancer specific protein 1; Breast cancer-specific gene 1 protein; Gamma synuclein; Persyn; PRSN; SNCG; SR; Synoretin; Synuclein gamma; SYUG_HUMAN.
<b>Research Area</b>	Cell biology Neurobiology Alzheimer's
<b>Immunogen Species</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>React Species</b>	Rat(predicted:Human,Mouse,Dog) IF=1:100-500
<b>Applications</b>	not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight</b>	13.5kDa
<b>Form</b>	Lyophilized or Liquid
<b>Concentration</b>	1mg/ml
<b>immunogen</b>	KLH conjugated synthetic peptide derived from human gamma Synuclein
<b>Lsotype</b>	IgG
<b>Purification</b>	affinity purified by Protein A
<b>Storage Buffer</b>	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
<b>Storage</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
<b>Product Detail</b>	<b>background:</b> The synuclein family consists of 3 highly conserved proteins of between 120 and 140 amino acids that share substantial sequence homology. Each has a series of loosely repeated motifs throughout the first 93 amino acids and an

acid region toward the C terminal. The proteins are heat stable and relatively soluble. Three synucleins have been identified and termed alpha, beta and gamma synuclein and are located in the neuronal cytosol and enriched in presynaptic terminals, gamma synuclein is also expressed in many other non-neuronal tissues. Although the precise function of the synucleins are unknown a role in membrane plasticity has been suggested. The synucleins have been implicated in a number of diseases. It has been reported that in breast cancer increased expression of gamma synuclein correlates with disease progression.

**Function:**

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.

**Subunit:**

May be a centrosome-associated protein.

**Subcellular Location:**

Cytoplasm, perinuclear region. Cytoplasm, cytoskeleton, centrosome. Cytoplasm, cytoskeleton, spindle. Note=Associated with centrosomes in several interphase cells. In mitotic cells, localized to the poles of the spindle.

**Tissue Specificity:**

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.

**Post-translational modifications:**

Phosphorylated. Phosphorylation by GRK5 appears to occur on residues distinct from the residue phosphorylated by other kinases.

**Similarity:**

Belongs to the synuclein family.

**Database links:**

[Entrez Gene: 6623](#) Human

[Entrez Gene: 20618](#) Mouse

[Entrez Gene: 64347](#) Rat

[Omim: 602998](#) Human

[SwissProt: O76070](#) Human

[SwissProt: Q9Z0F7](#) Mouse

[SwissProt: Q63544](#) Rat

[Unigene: 349470](#) Human

[Unigene: 282800](#) Mouse

[Unigene: 2883](#) Rat

**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Neurobiology 相关蛋白 (Neurobiology)

SNCG (gamma-Synuclein) 蛋白在各种癌症组织中呈广范表达, 存在较高的异常表达率, SNCG 蛋白表达与癌症分期有关, I 期表达率低, II~IV 期表达率高。尤其重要的是: 经研究发现无论何种原发性 Tumour, SNCG 蛋白的出现与癌症远处转移都有很高的关联性。