

Human gamma-Synuclein antibody

Catalog Number: PGS0606

PRODUCT INFORMATION

Catalog number

PGS0606

Clone No.

Product type

Polyclonal Antibody

UnitProt No.

O76070

NCBI Accession No.

NP_003078.2

Alternative Names

Synuclein gamma, SNCG, BCSG1, SR, Persyn, PRSN, Synoretin, Breast cancer-specific gene 1, γ -synuclein

PRODUCT SPECIFICATION

Antibody Host

Rabbit

Reacts With

Human

Concentration

1mg/ml (determined by BCA assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

Immunogen

Recombinant human gamma-Synuclein (1-127aa) purified from E. coli

Purification Note

By protein-A affinity chromatography

Application

ELISA, WB

Usage

The antibody has been tested by ELISA and Western blot analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

Storage

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

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BACKGROUND

Description

Synucleins are small, soluble proteins expressed primarily in neural tissue and in certain tumors. The family includes three known proteins: alpha-synuclein, beta-synuclein, and gamma-synuclein. All synucleins have in common a highly conserved alpha-helical lipid-binding motif with similarity to the class-A2 lipid-binding domains of the exchangeable apolipoproteins. Although they are homologous, each synuclein is encoded by a different gene on chromosomes 4q21.3-q22. gamma-Synuclein (also called BCSG-1) is abnormally expressed in a high percentage of tumor tissues of diversified cancer types, including liver, esophagus, colon, gastric, lung, prostate, cervical, and breast cancer.

General References

Liu H. et. al. (2005) *Cancer Res.* 65, 7635-7643 Ji.H. et al. (1997).

Cancer Res. 57, 759-764 George, J.M. (2001) *Genome Biol.* 3, 3002.1-3002.6.

DATA

Western blot analysis (WB)



The recombinant synuclein family (alpha-,beta- and gamma-) proteins were resolved by SDS-PAGE, transferred to PVDF membrane and probed with polyclonal anti-human gamma-synuclein (1:1,000). Proteins were visualized using a goat anti-rabbit secondary antibody conjugated to HRP and the ECL detection system.