**BACKGROUND**

Members of the calsyntenin protein family are localized to the postsynaptic membrane of excitatory central nervous system (CNS) synapses. Calsyntenin-2, also known as Alcadein-γ, is a 955 amino acid protein that localizes to the endoplasmic reticulum, Golgi apparatus and plasma membranes. Containing 2 cadherin-like repeats in its N-terminal extracellular region, calsyntenin-2 binds synaptic calcium with its cytoplasmic domain, suggesting a role in the modulation of calcium-mediated postsynaptic signals. Under normal physiological conditions, calsyntenin-2 is posttranslationally processed in an event in which the primary ζ-cleavage generates a short C-terminal transmembrane fragment and a long extracellular N-terminal domain.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: CLSTN2 (human) mapping to 3q23; Clstn2 (mouse) mapping to 9 E3.3.

**SOURCE**

calsyntenin-2 (T-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an extracellular domain of calsyntenin-2 of human origin.

**STORAGE**

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**PRODUCT**

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-102403 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

**APPLICATIONS**

calsyntenin-2 (T-16) is recommended for detection of calsyntenin-2 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with family members calsyntenin-1 or calsyntenin-3.


Molecular Weight of calsyntenin-2: 107 kDa.

**RECOMMENDED SECONDARY REAGENTS**

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

**RESEARCH USE**

For research use only, not for use in diagnostic procedures.

**PROTOCOLS**

See our web site at www.scbt.com or our catalog for detailed protocols and support products.