SANTA CRUZ BIOTECHNOLOGY, INC.

Wnt-4 (B-6): sc-376279

BACKGROUND

Products of the highly conserved Wnt gene family, including Wnt-1 through Wnt-10, play key roles in regulating cellular growth and differentiation. Wnt-1 is a cysteine-rich, secreted glycoprotein that associates with cell membranes and likely functions as a key regulator of cellular adhesion. Wnt-1, which is essential for normal development of the embryonic neural cell system, contributes to hyperplasia and tumorigenic progression when improperly expressed in mammary tissue. Wnt-3 is also involved in tumorigenesis, and Wnt-2 and Wnt-4 may be associated with abnormal proliferation in human breast tissue. Wnt-1, Wnt-3 and Wnt-10b have been implicated along with FGF-3 in the development of mouse mammary tumor virus-induced mouse mammary carcinomas. Wnt family members have been shown to interact with Sonic hedgehog (Shh) in vivo to induce myogenesis in somitic tissue.

CHROMOSOMAL LOCATION

Genetic locus: WNT4 (human) mapping to 1p36.12; Wnt4 (mouse) mapping to 4 D3.

SOURCE

Wnt-4 (B-6) is a mouse monoclonal antibody raised against amino acids 1-70 of Wnt-4 of mouse origin.

PRODUCT

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

Wnt-4 (B-6) is available conjugated to agarose (sc-376279 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-376279 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-376279 PE), fluorescein (sc-376279 FITC), Alexa Fluor® 488 (sc-376279 AF488), Alexa Fluor® 546 (sc-376279 AF546), Alexa Fluor® 594 (sc-376279 AF594) or Alexa Fluor® 647 (sc-376279 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FC; and to either Alexa Fluor® 680 (sc-376279 AF680) or Alexa Fluor® 790 (sc-376279 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FC.

APPLICATIONS

Wnt-4 (B-6) is recommended for detection of Wnt-4 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysates)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Wnt-4 (B-6) is also recommended for detection of Wnt-4 in additional species, including porcine.

Suitable for use as control antibody for Wnt-4 siRNA (h): sc-411110, Wnt-4 siRNA (m): sc-411111, Wnt-4 shRNA Plasmid (h): sc-41110-SH, Wnt-4 shRNA Plasmid (m): sc-411111-SH, Wnt-4 shRNA (h) Lentiviral Particles: sc-41110-V and Wnt-4 shRNA (m) Lentiviral Particles: sc-411111-V.

Molecular Weight of Wnt-4: 40 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200.

STORAGE

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

DATA

Positive Controls: HeLa whole cell lysate: sc-2200.

SELECT PRODUCT CITATIONS


RESEARCH USE

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

Alexa Fluor® is a trademark of Molecular Probes, Inc., Oregon, USA.