



Wnt-8a (14-3): sc-80459

BACKGROUND

The Wnt genes belong to a family of protooncogenes with at least 13 known members that are expressed in species ranging from *Drosophila* to man. The name Wnt denotes the relationship of this family to the *Drosophila* segment polarity gene "Wingless" and to its vertebrate ortholog, Int1, a mouse proto-oncogene. Transcription of Wnt family genes appears to be developmentally regulated in a precise temporal and spatial manner. The Wnt genes encode cysteine-rich putative glycoproteins, which have features typical of secreted growth factors. Wnt-8a, also known as Wnt-8d, is a secreted protein belonging to the Wnt-1 class of effective activators of the canonical pathway. Wnt-8a acts as a ligand for seven transmembrane receptors of the frizzled family. It shares 63.2% sequence identity with Wnt-8b. Wnt-8a may play a role in the development of early embryos via activation of the β -catenin/TCF canonical pathway.

REFERENCES

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STORAGE

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

CHROMOSOMAL LOCATION

Genetic locus: Wnt8a (mouse) mapping to 18 B1.

SOURCE

Wnt-8a (14-3) is a rat monoclonal antibody raised against full length recombinant Wnt-8a of mouse origin.

PRODUCT

Each vial contains 100 μ g IgG_{2a} in 1.0 ml of PBS with < 0.1% sodium azide and protein stabilizer.

APPLICATIONS

Wnt-8a (14-3) is recommended for detection of Wnt-8a of mouse origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with Wnt-1, Wnt-3a, Wnt-5a or Wnt-10b.

Suitable for use as control antibody for Wnt-8a siRNA (m): sc-72397, Wnt-8a shRNA Plasmid (m): sc-72397-SH and Wnt-8a shRNA (m) Lentiviral Particles: sc-72397-V.